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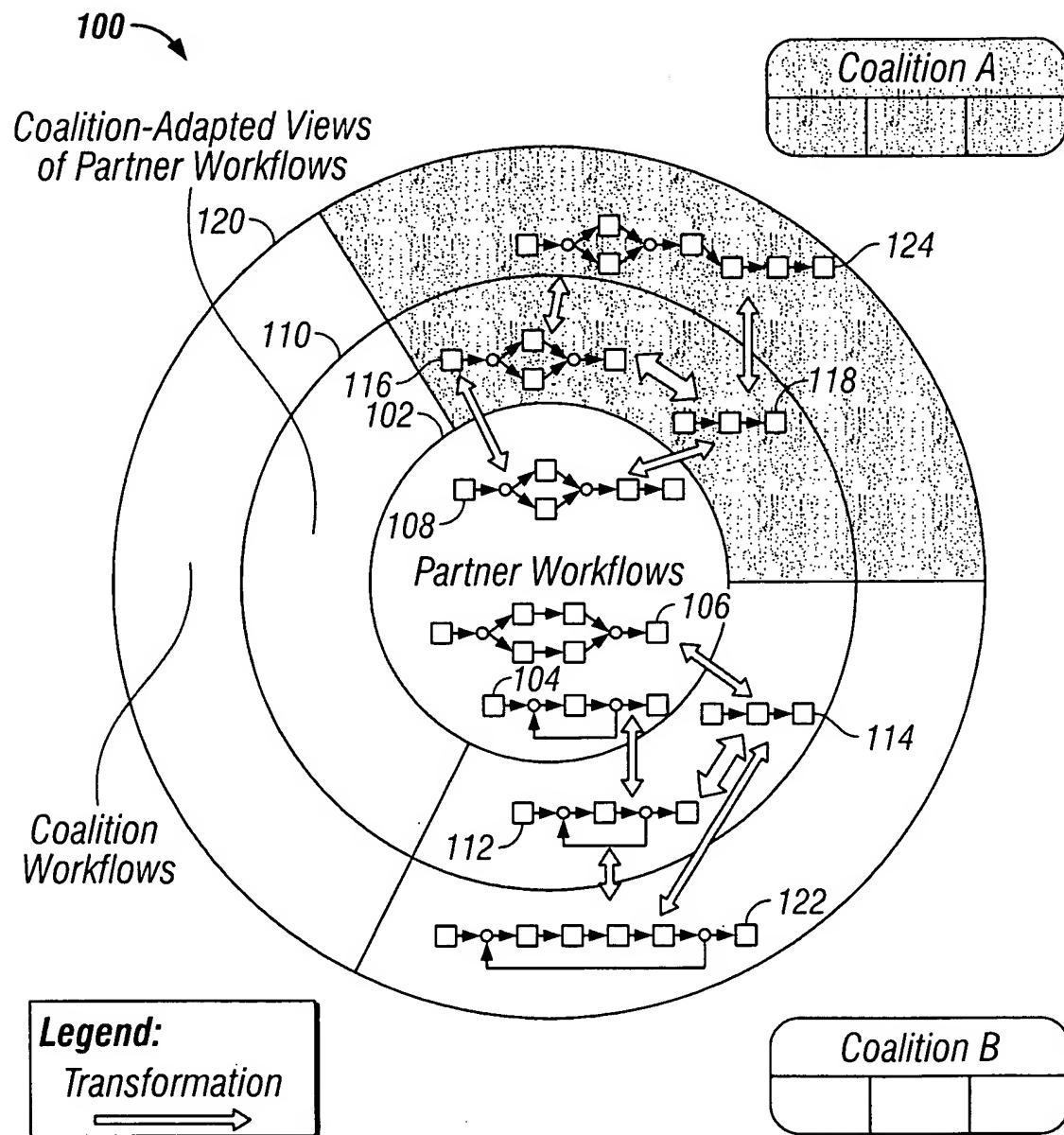


FIG. 1

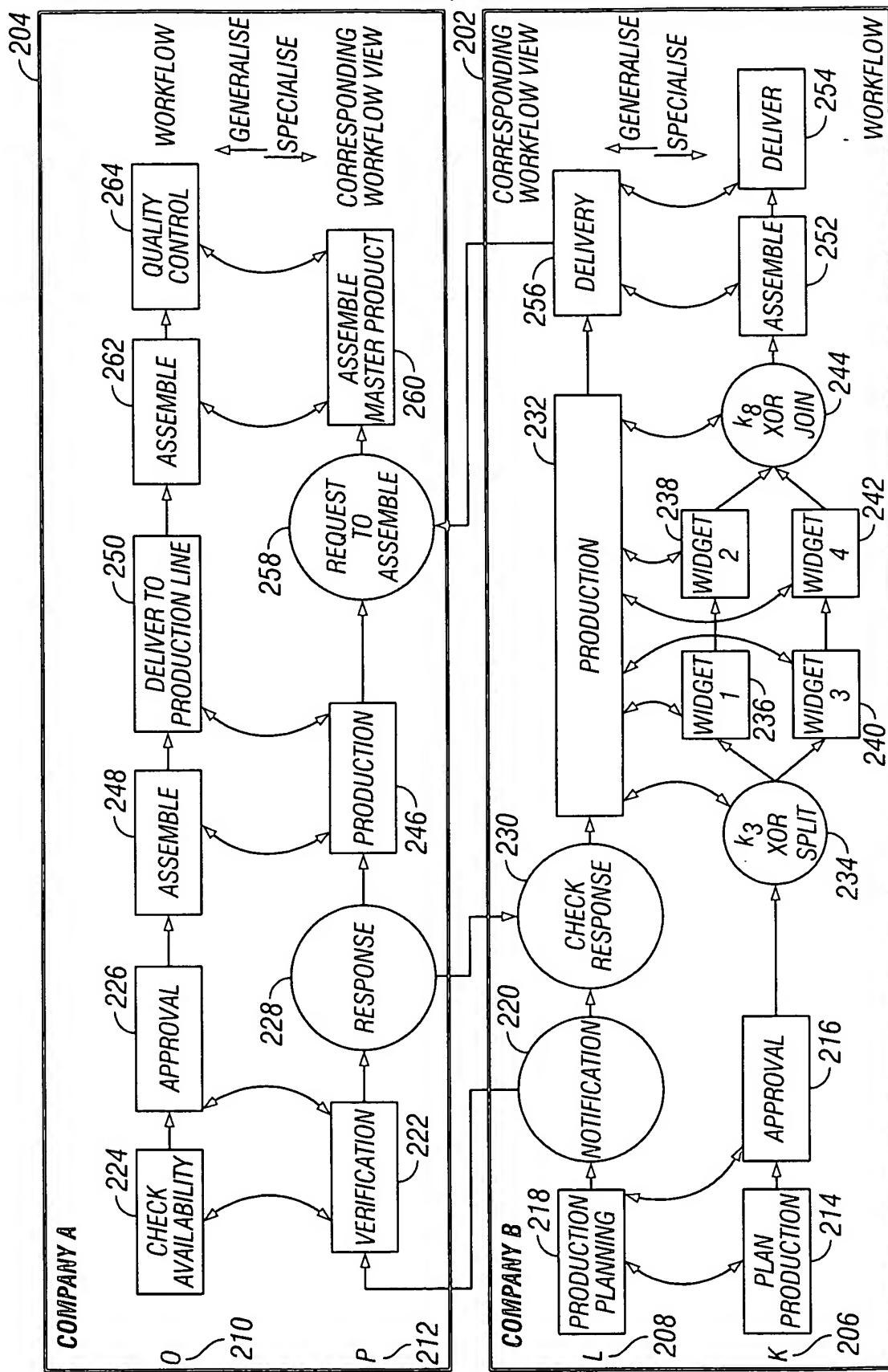
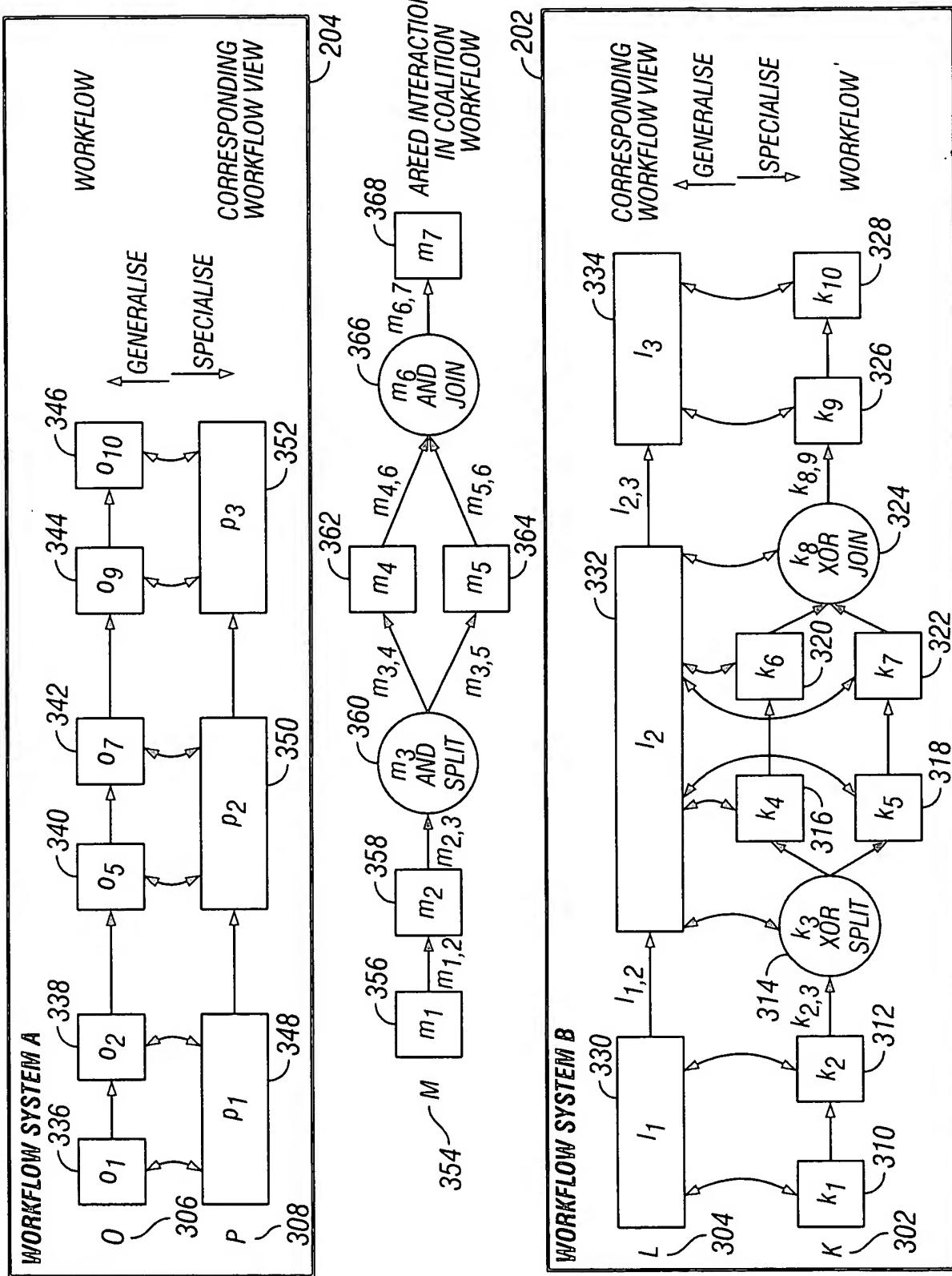
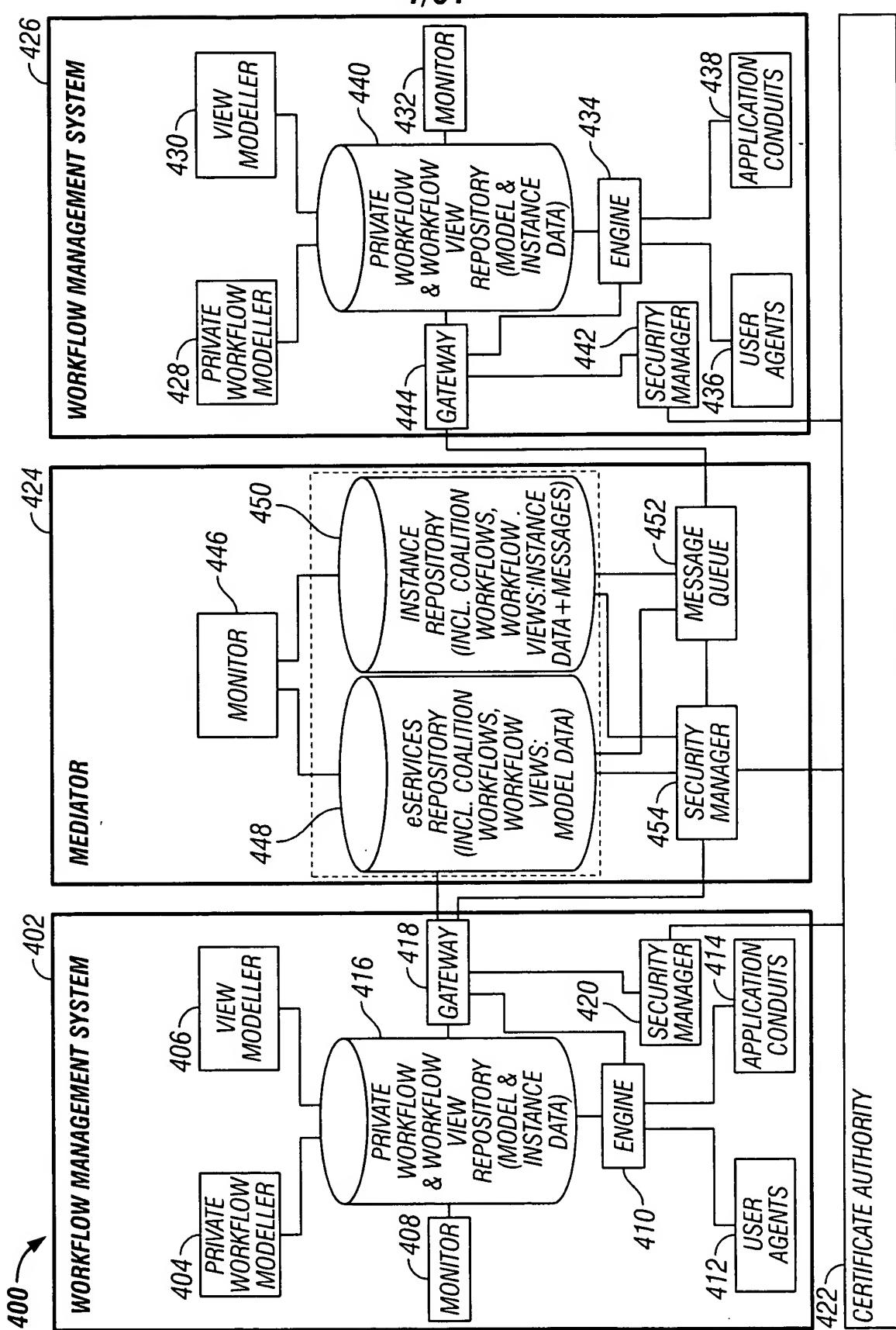


FIG. 2

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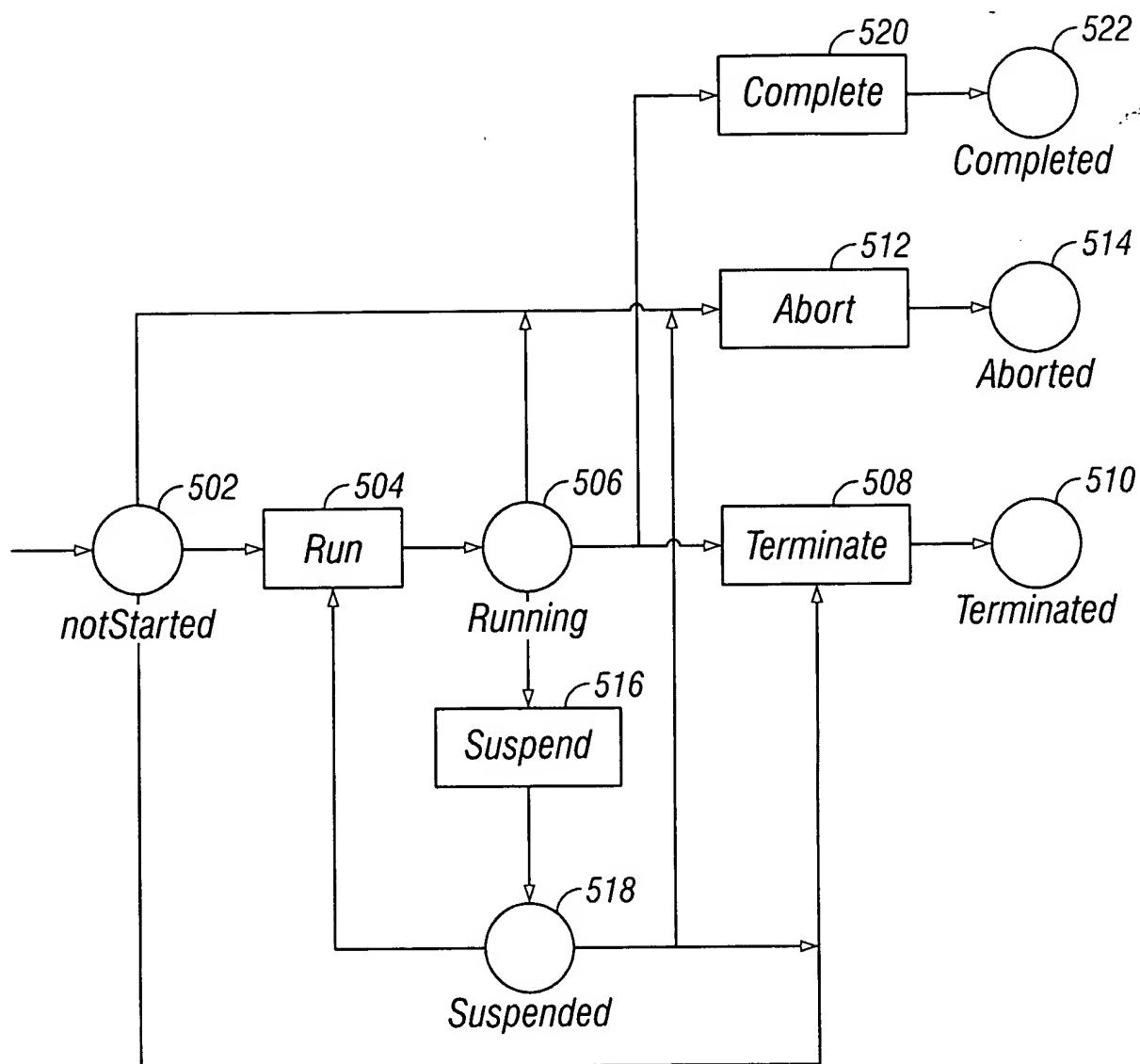


FIG. 5

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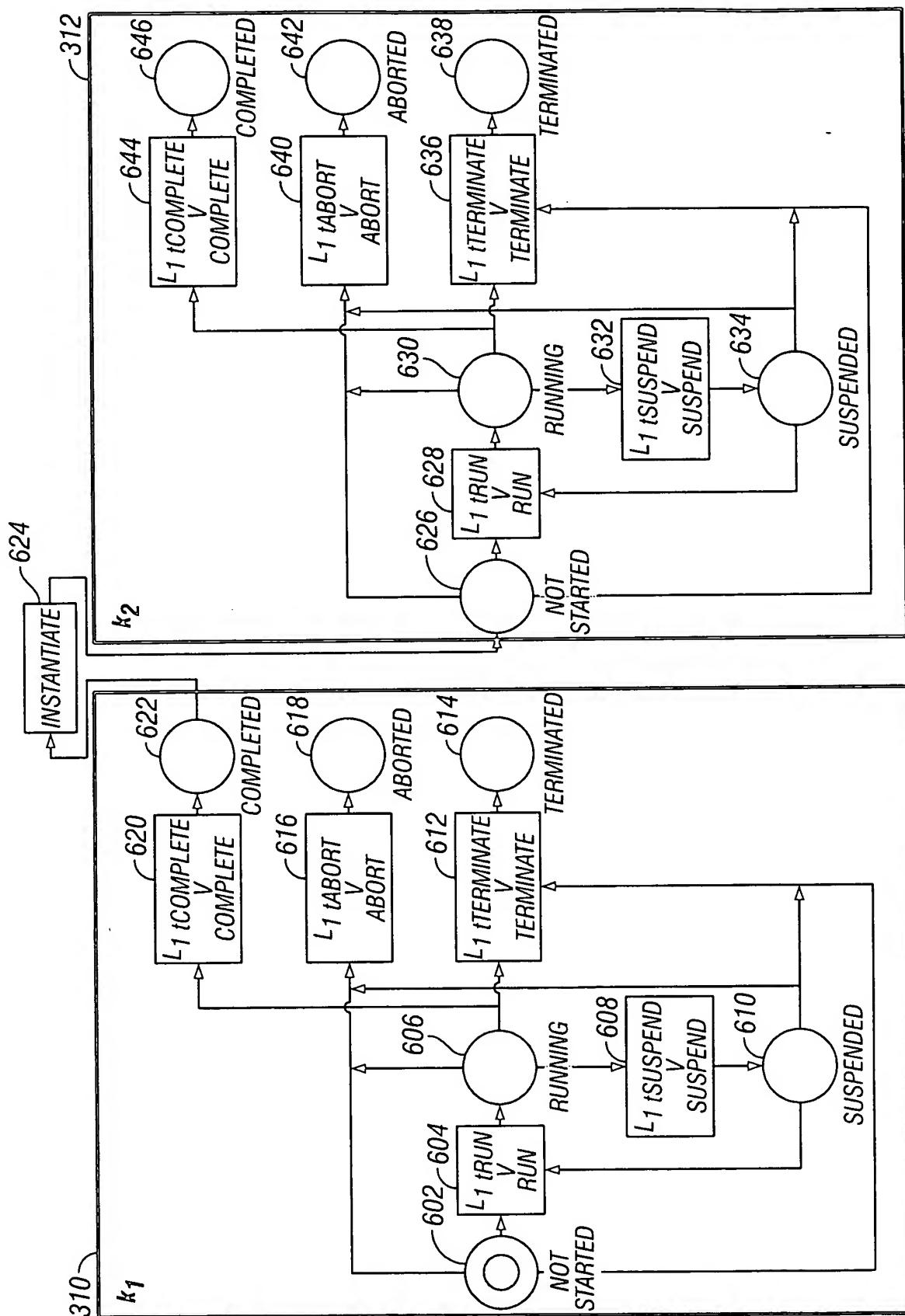
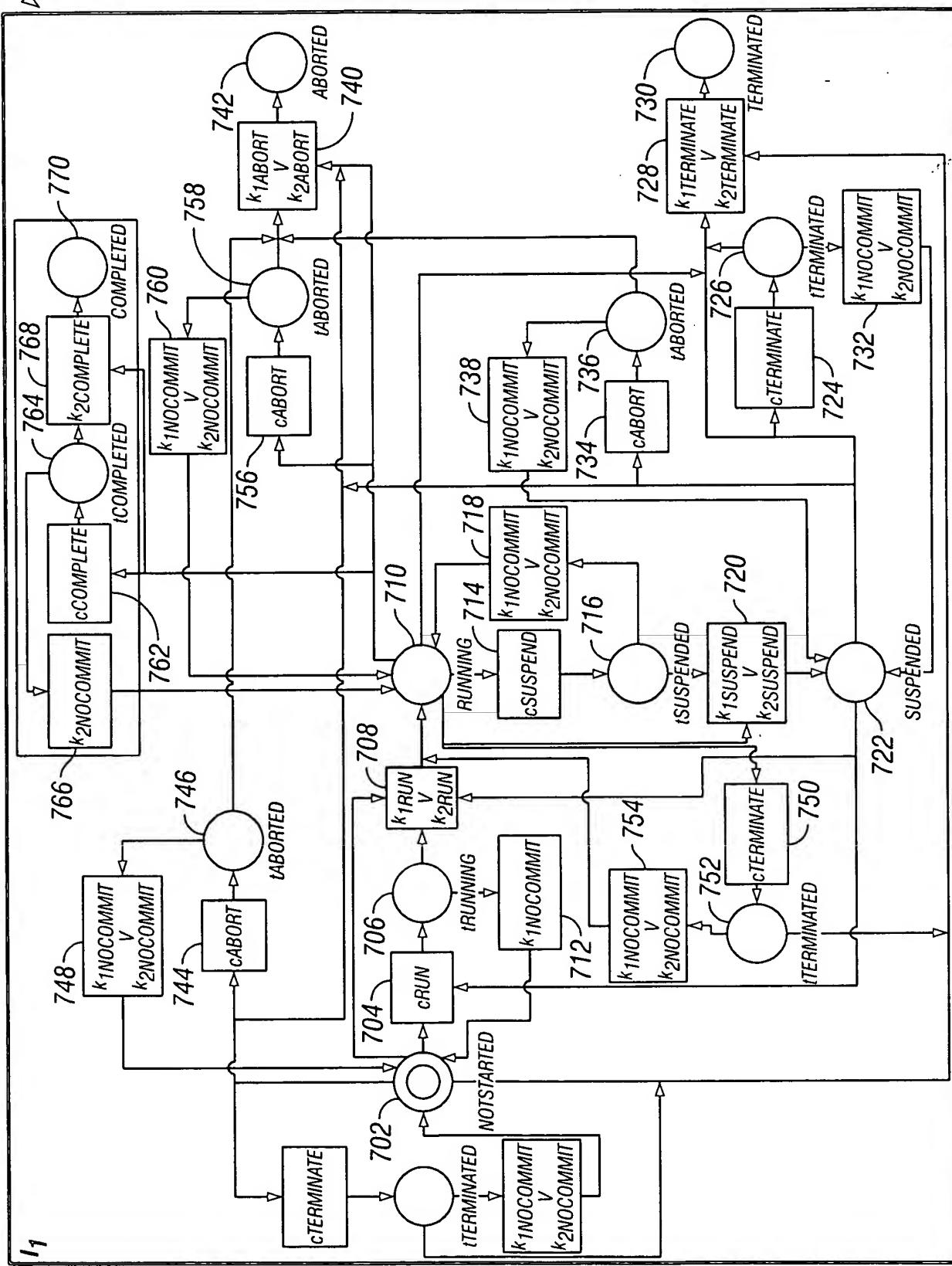


FIG. 6

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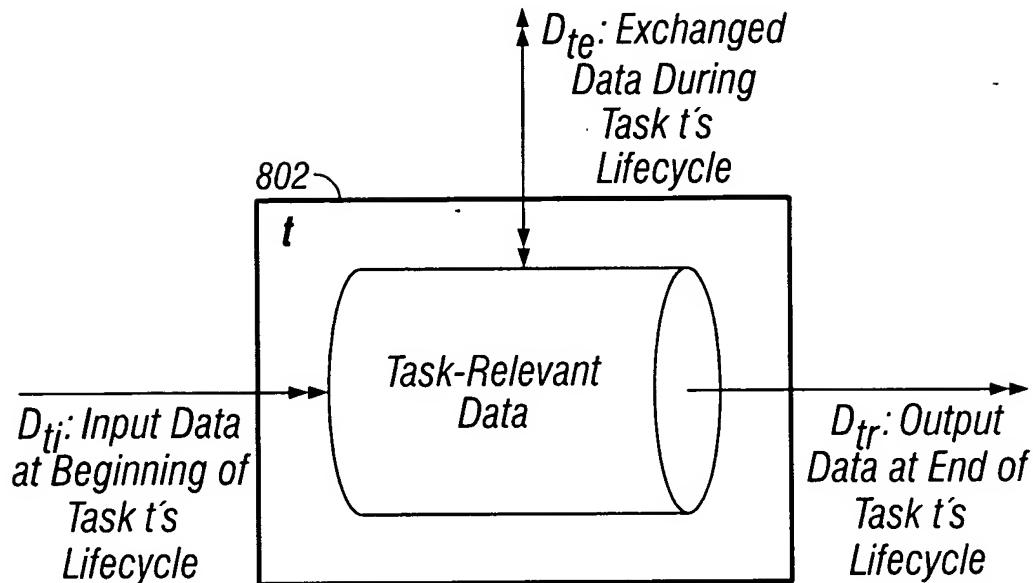


FIG. 8

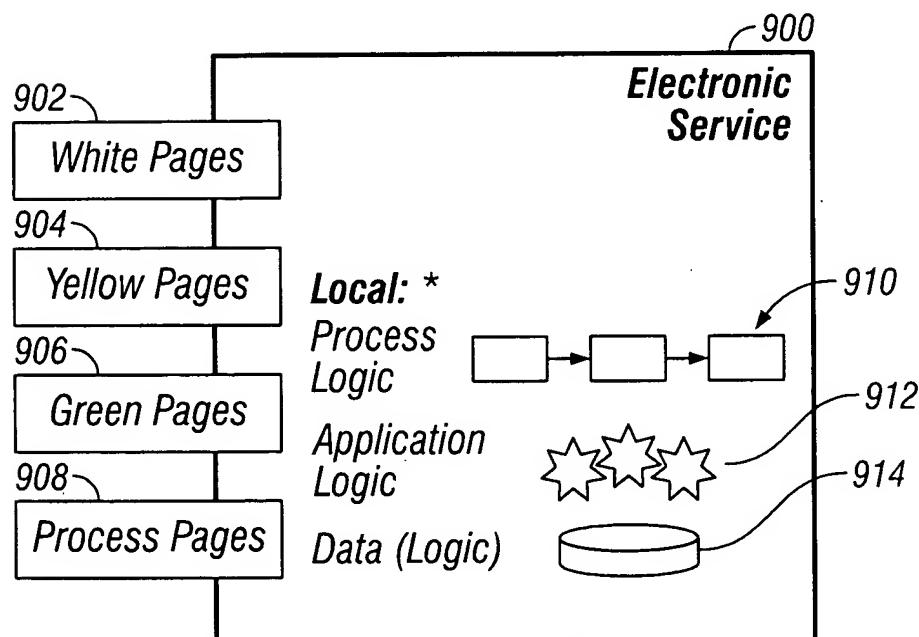


FIG. 9

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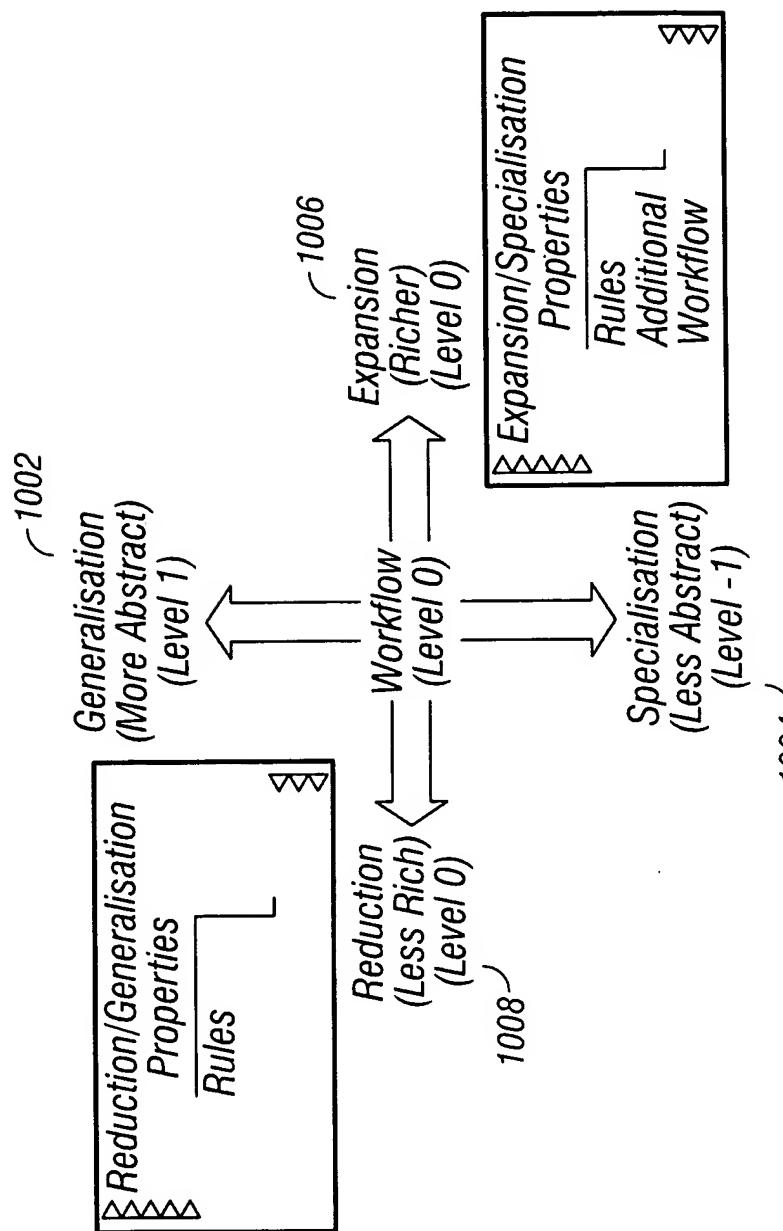


FIG. 10

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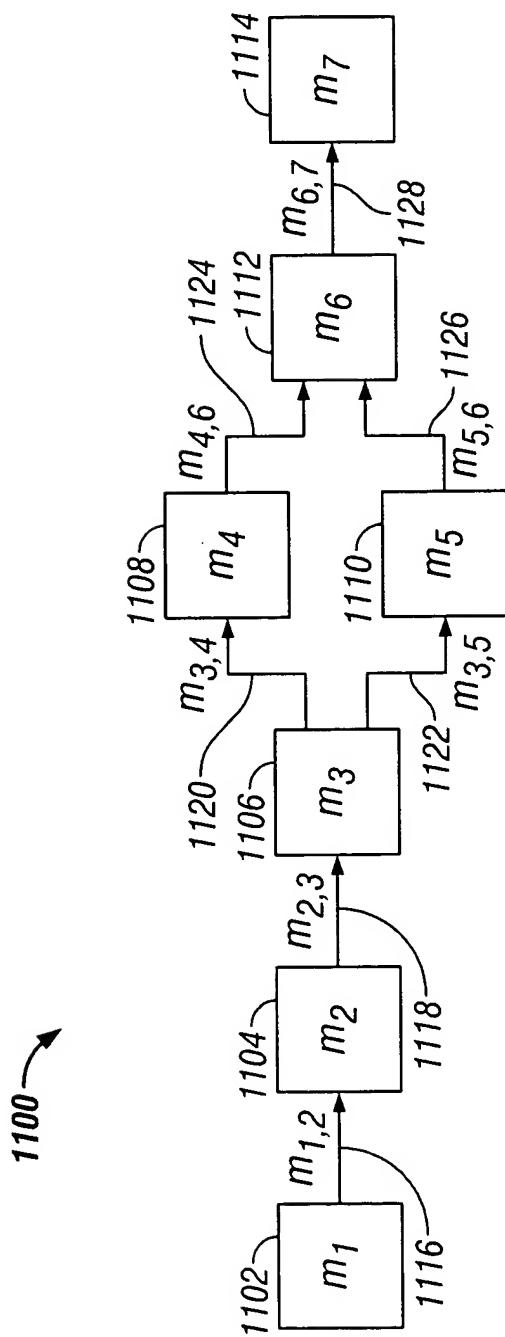


FIG. 11

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Row-Index (i)		Column-Index (j) 1202		\dots		I		$I+1$		\dots		$I+n-1$		$I+n$		\dots		$r-1$		r	
1	2	$m_{1,1}$	$m_{1,2}$	$m_{1,\dots}$	$m_{1,I}$	0	0	0	0	\dots	$I+1$	\dots	$I+n-1$	$I+n$	\dots	$r-1$	r	1206	1208	1208	1200
1	$m_{2,1}$	$m_{2,2}$	$m_{2,\dots}$	$m_{2,I}$	0	0	0	0	\dots	$I+1$	\dots	$I+n-1$	$I+n$	\dots	$r-1$	r	⑥	③	④	②	⑤
\vdots	$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,I}$	0	0	0	0	\dots	$I+1$	\dots	$I+n-1$	$I+n$	\dots	$r-1$	r	⑥	③	④	②	⑤
I	0	0	0	0	$n_{1,1}$	$n_{1,2}$	$n_{1,\dots}$	$n_{1,n}$	0	0	0	0	0	0	0	0	0	0	0	0	0
$I+1$	0	0	0	0	$n_{2,1}$	$n_{2,2}$	$n_{2,\dots}$	$n_{2,n}$	0	0	0	0	0	0	0	0	0	0	0	0	0
\vdots	0	$12^{I/2}$	0	0	$n_{\dots,\dots}$	$n_{\dots,\dots}$	$n_{\dots,\dots}$	$n_{\dots,n}$	0	0	0	0	0	0	0	0	0	0	0	0	0
$I+n-1$	$m_{I,1}$	$m_{I,2}$	$m_{I,\dots}$	$m_{I,I}$	$n_{\eta,1}$	$n_{\eta,2}$	$n_{\eta,\dots}$	$n_{\eta,n}$	$m_{I,I+1}$	$m_{I,\dots}$	$m_{I,m-1}$	$m_{I,m}$	$m_{I+1,I+1}$	$m_{I+1,\dots}$	$m_{I+1,m-1}$	$m_{I+1,m}$	$m_{I,m}$	$m_{I,m}$	$m_{I,m}$	$m_{I,m}$	$m_{I,m}$
$I+n$	$m_{I+1,1}$	$m_{I+1,2}$	$m_{I+1,\dots}$	$m_{I+1,I}$	0	0	0	0	12^{10}	$m_{I+1,I+1}$	$m_{I+1,\dots}$	$m_{I+1,m-1}$	$m_{I+1,m}$	$m_{I+1,I+1}$	$m_{I+1,\dots}$	$m_{I+1,m-1}$	$m_{I+1,m}$	$m_{I,m}$	$m_{I,m}$	$m_{I,m}$	$m_{I,m}$
\vdots	$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,I}$	0	0	0	0	\dots	$m_{\dots,I+1}$	$m_{\dots,\dots}$	$m_{\dots,m-1}$	$m_{\dots,m}$	$m_{m-1,I+1}$	$m_{m-1,\dots}$	$m_{m-1,m-1}$	$m_{m-1,m}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$
$r-1$	$m_{m-1,1}$	$m_{m-1,2}$	$m_{m-1,\dots}$	$m_{m-1,I}$	0	0	0	0	\dots	$m_{m,I+1}$	$m_{m,\dots}$	$m_{m,m-1}$	$m_{m,m}$	$m_{m,I+1}$	$m_{m,\dots}$	$m_{m,m-1}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$
r	$m_{m,1}$	$m_{m,2}$	$m_{m,\dots}$	$m_{m,I}$	0	0	0	0	\dots	$m_{m,I+1}$	$m_{m,\dots}$	$m_{m,m-1}$	$m_{m,m}$	$m_{m,I+1}$	$m_{m,\dots}$	$m_{m,m-1}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$	$m_{m,m}$

FIG. 12

Row-Index(i)	Column-Index(j)	1302	...	m-1	m	m+1	...	1306	...	m+n-1	m+n
1	1	$m_{1,1}$	$m_{1,2}$	$m_{1,\dots}$	$m_{1,I}$	$m_{1,\dots}$	$m_{1,m-1}$	$m_{1,m}$	$m_{1,I}$	$m_{1,\dots}$	$m_{1,n}$
2	2	$m_{2,1}$	$m_{2,2}$	$m_{2,\dots}$	$m_{2,I}$	$m_{2,\dots}$	$m_{2,m-1}$	$m_{2,m}$	$m_{2,I}$	$m_{2,\dots}$	$m_{2,n}$
\vdots	$m_{\dots,1}$	$m_{\dots,2}$	$m_{\dots,\dots}$	$m_{\dots,I}$	$m_{\dots,\dots}$	$m_{\dots,m-1}$	$m_{\dots,m}$	$m_{\dots,I}$	$m_{\dots,\dots}$	$m_{\dots,n}$	0
\vdots	$m_{I,1}$	$m_{I,2}$	$m_{I,\dots}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,m-1}$	$m_{I,m}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,n}$	0
$m-1$	$m_{m-1,1}$	$m_{m-1,2}$	$m_{m-1,\dots}$	$m_{m-1,I}$	$m_{m-1,\dots}$	$m_{m-1,m-1}$	$m_{m-1,m}$	$m_{m-1,I}$	$m_{m-1,\dots}$	$m_{m-1,n}$	0
m	$m_{m,1}$	$m_{m,2}$	$m_{m,\dots}$	$m_{m,I}$	$m_{m,\dots}$	$m_{m,m-1}$	$m_{m,m}$	$m_{m,I}$	$m_{m,\dots}$	$m_{m,n}$	0
$m+1$	0	0	0	0	0	0	0	$n_{1,1}$	$n_{1,\dots}$	$n_{1,n-1}$	$n_{1,n}$
\vdots	0	0	0	0	0	0	0	$n_{\dots,1}$	$n_{\dots,\dots}$	$n_{\dots,n-1}$	$n_{\dots,n}$
$m+n-1$	0	0	0	0	0	0	0	$n_{n-1,1}$	$n_{n-1,\dots}$	$n_{n-1,n-1}$	$n_{n-1,n}$
$m+n$	$m_{I,1}$	$m_{I,2}$	$m_{I,\dots}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,m-1}$	$m_{I,m}$	$m_{I,I}$	$m_{I,\dots}$	$m_{I,n-1}$	$m_{I,n}$

FIG. 13

1308

1304

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Row-Index (i)		Column-Index (j)													
1		2		...		k-1		k		k+1		...		r	
1	$m_{1,1}$	$m_{1,2}$...	$m_{1,k-1}$	$m_{1,k}$		$m_{1,l+1}$...	$m_{1,m}$						
2	$m_{2,1}$	$m_{2,2}$...	$m_{2,k-1}$	$m_{2,k}$		$m_{2,l+1}$...	$m_{2,m}$						
...						
$k-1$	$m_{k-1,1}$	$m_{k-1,2}$	...	$m_{k-1,k-1}$	$m_{k-1,k}$		$m_{k-1,l+1}$	...	$m_{k-1,m}$						
k	$m_{l,1}$	$m_{l,2}$...	$m_{l,k-1}$	0		$m_{l,l+1}$...	$m_{l,m}$						
$k+1$	$m_{l+1,1}$	$m_{l+1,2}$...	$m_{l+1,k-1}$	$m_{l+1,k}$		$m_{l+1,l+1}$...	$m_{l+1,m}$						
...						
r	$m_{m,1}$	$m_{m,2}$...	$m_{m,k-1}$	$m_{m,k}$		$m_{m,l+1}$...	$m_{m,m}$						

FIG. 14

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Row-Index (i)		Column-Index (j)		1502		K		1504		$m+1$	
				$m_{1,1}$	$m_{1,2}$	$m_{1,k}$	\dots	$m_{1,l}$	\dots	$m_{1,m}$	$m_{1,m}$
1	$m_{1,1}$	$m_{1,2}$	\dots	$m_{1,k}$	\dots	$m_{1,l}$	\dots	$m_{1,m}$	$m_{1,m}$	$m_{1,k}$	$m_{1,k}$
2	$m_{2,1}$	$m_{2,2}$	\dots	$m_{2,k}$	\dots	$m_{2,l}$	\dots	$m_{2,m}$	$m_{2,m}$	\dots	\dots
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
k	$m_{k,1}$	$m_{k,2}$	\dots	$m_{k,k}$	\dots	$m_{k,l}$	\dots	$m_{k,m}$	$m_{k,m}$	$m_{k,k}$	$m_{k,k}$
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
l	$m_{l,1}$	$m_{l,2}$	\dots	$m_{l,k}$	\dots	$m_{l,l}$	\dots	$m_{l,m}$	$m_{l,m}$	$m_{l,k}$	$m_{l,k}$
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
m	$m_{m,1}$	$m_{m,2}$	\dots	$m_{m,k}$	\dots	$m_{m,l}$	\dots	$m_{m,m}$	$m_{m,m}$	$m_{m,k}$	$m_{m,k}$
$③$	$m_{l,1}$	$m_{l,2}$	\dots	$m_{l,k}$	\dots	$m_{l,l}$	\dots	$m_{l,m}$	$m_{l,m}$	0	$④$
$m+1$	$m_{l,1}$	$m_{l,2}$	\dots								1508
											1506

FIG. 15

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Row-Index (i)		Column-Index (j)		1602		1604		1606	
				$k+1$	\dots	$k+n-1$	$k+n$	\dots	$r-1$
1	$m_{1,1}$	\dots	$m_{1,k-1}$	$m_{1,k}$	0	\dots	0	$m_{1,m-1}$	$m_{1,m}$
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
$k-1$	$m_{k-1,1}$	\dots	$m_{k-1,k-1}$	$m_{k-1,k}$	0	\dots	0	$m_{k-1,l+1}$	\dots
								$m_{k-1,m-1}$	$m_{k-1,m}$
K	0	0	0	$n_{1,1}$	$n_{1,2}$	\dots	$n_{1,n}$	$\cancel{0}_{1610}$	0
$K+1$	0	0	0	$n_{2,1}$	$n_{2,2}$	\dots	$n_{2,n}$	0	0
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
$K+n-1$	$m_{l,1}$	\dots	$m_{l,k-1}$	$n_{l,1}$	$n_{l,2}$	\dots	$n_{l,n}$	$m_{l,l+1}$	\dots
	$m_{l+1,1}$	\dots	$m_{l+1,k-1}$	$m_{l+1,k}$	0	\dots	0	$m_{l+1,l+1}$	\dots
\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
$r-1$	$m_{m-1,1}$	\dots	$m_{m-1,k-1}$	$m_{m-1,k}$	0	\dots	0	$m_{m-1,l+1}$	\dots
r	$m_{m,1}$	\dots	$m_{m,k-1}$	$m_{m,k}$	0	\dots	0	$m_{m,l+1}$	$m_{m,m}$
									4

FIG. 16

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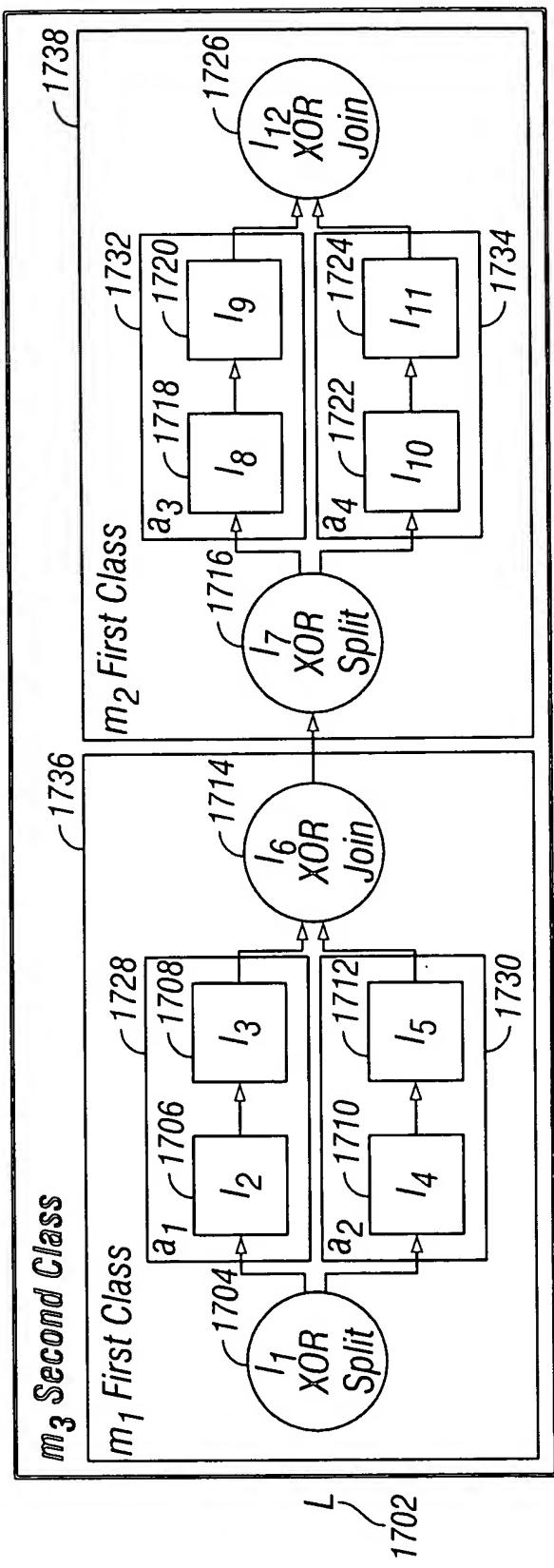


FIG. 17

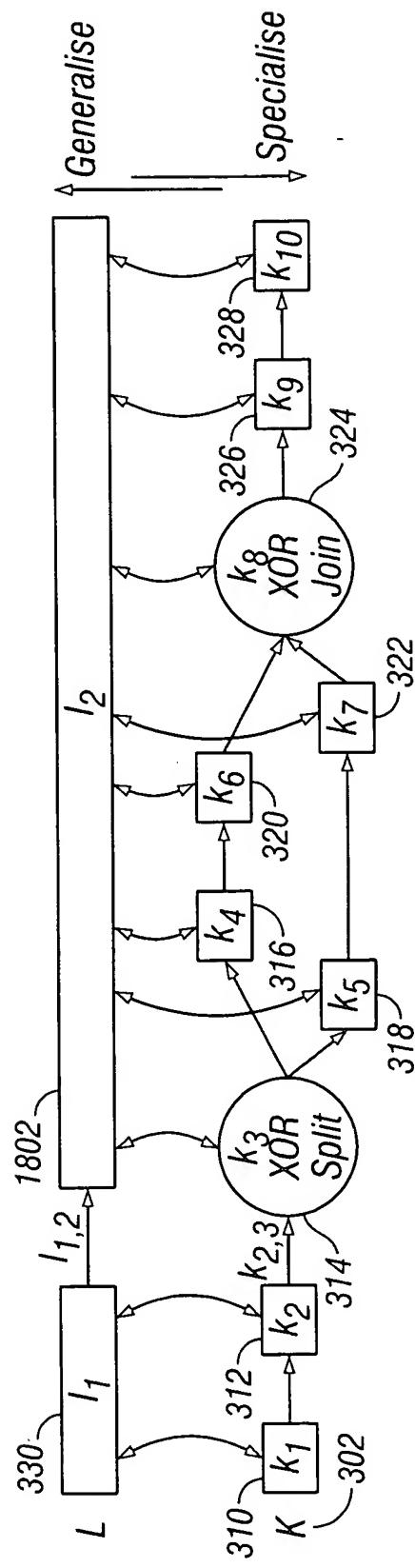


FIG. 18

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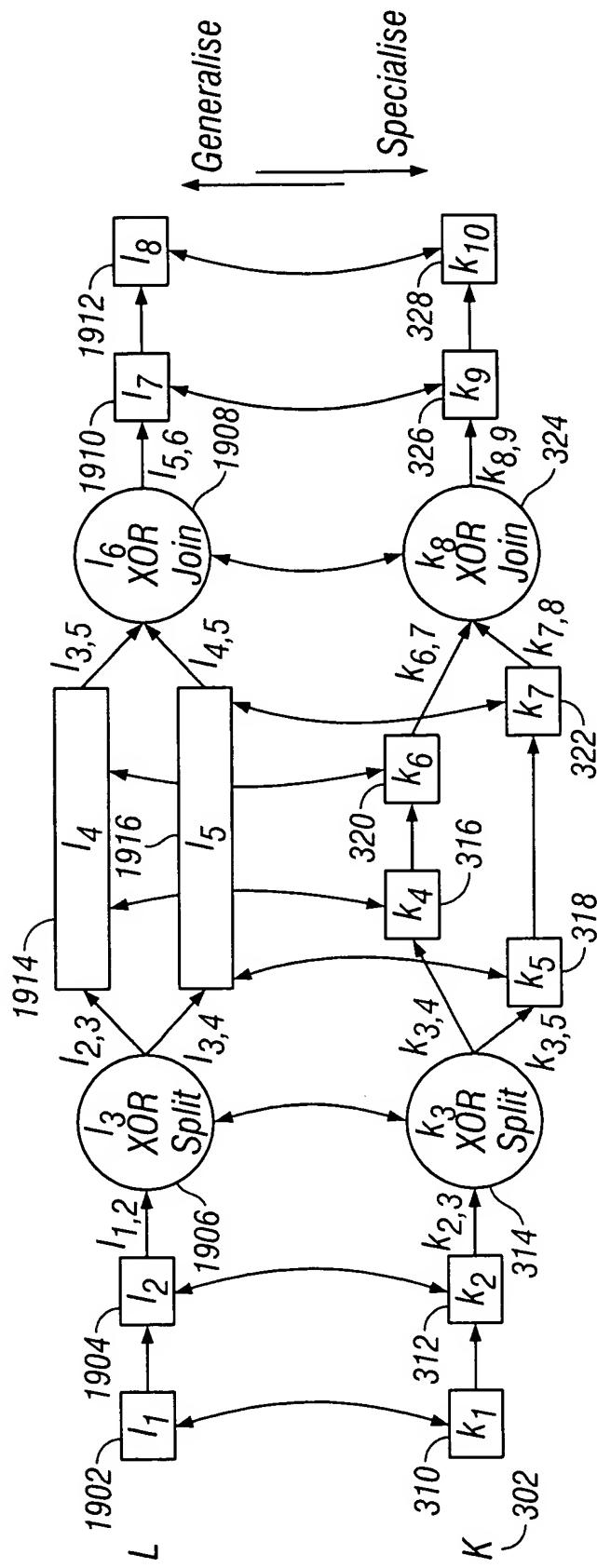


FIG. 19

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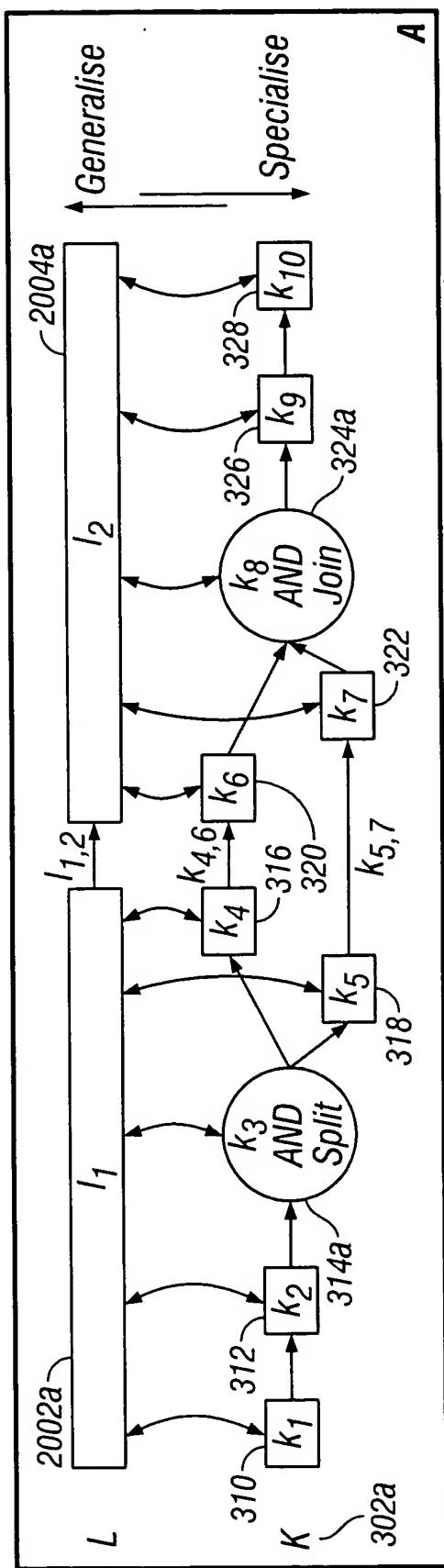


FIG. 20A

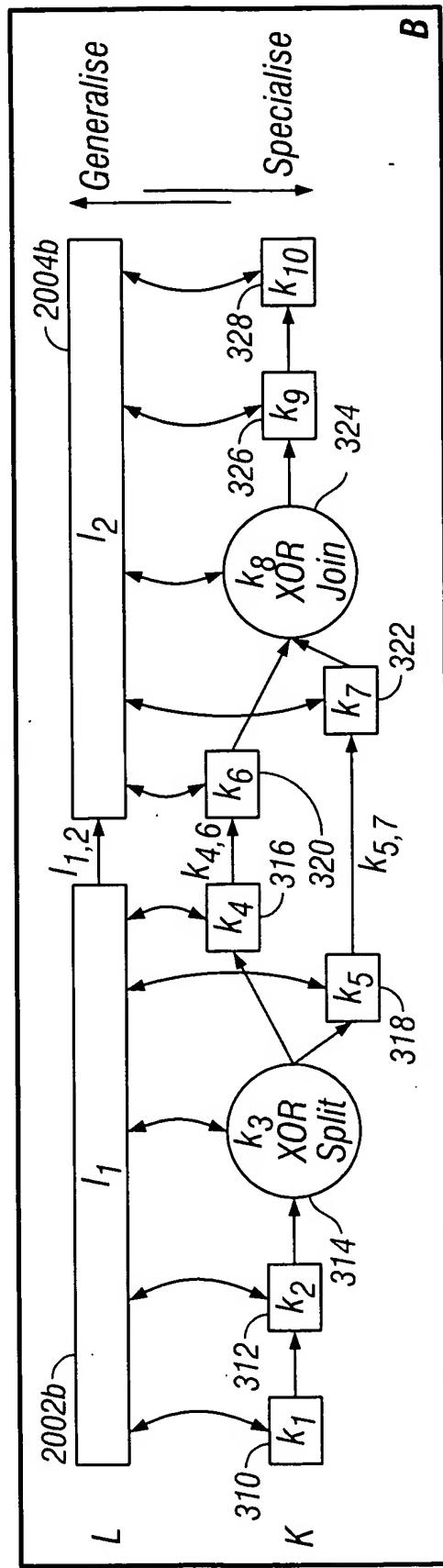


FIG. 20B

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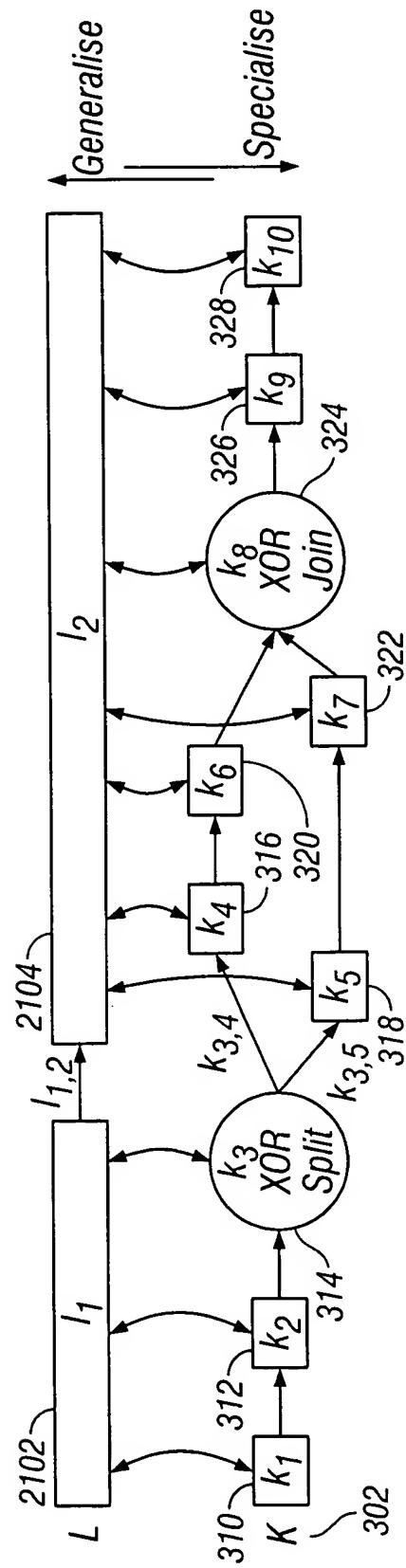


FIG. 21

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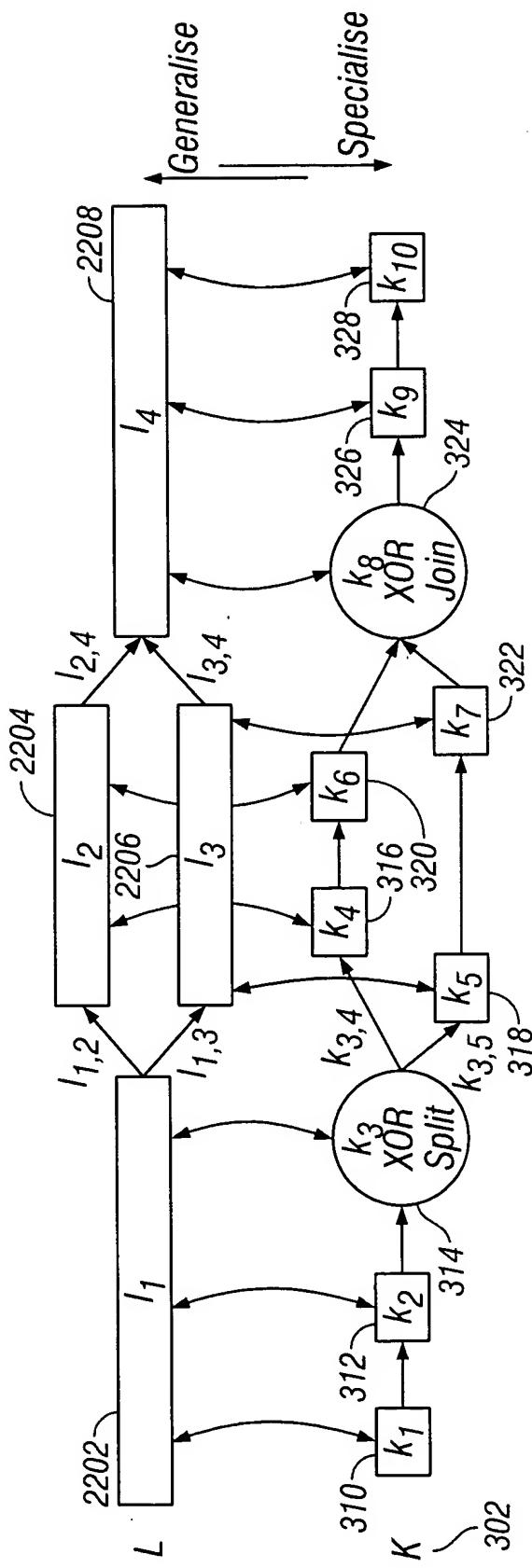


FIG. 22

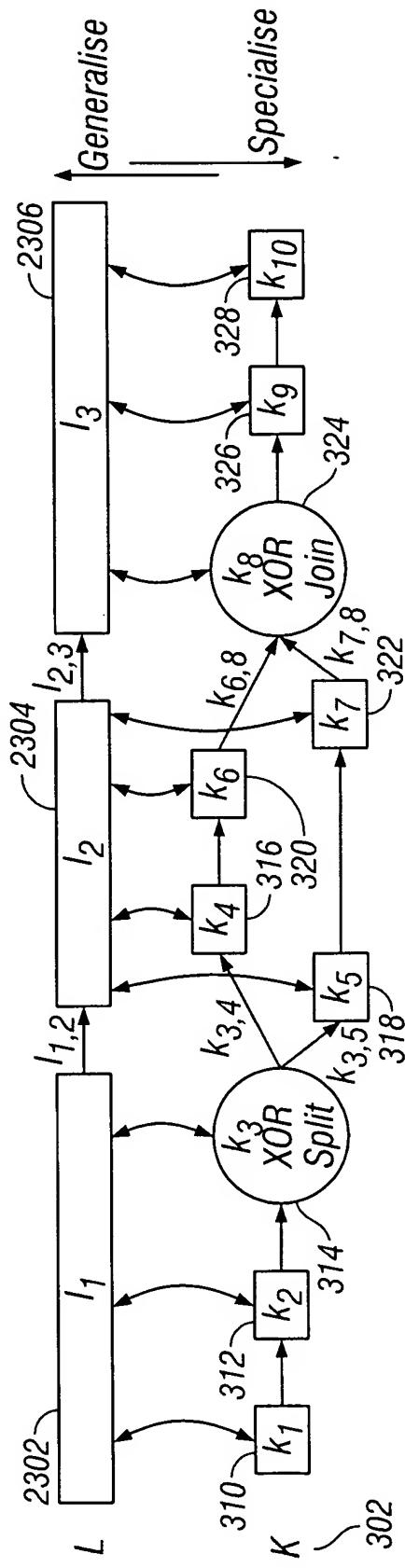
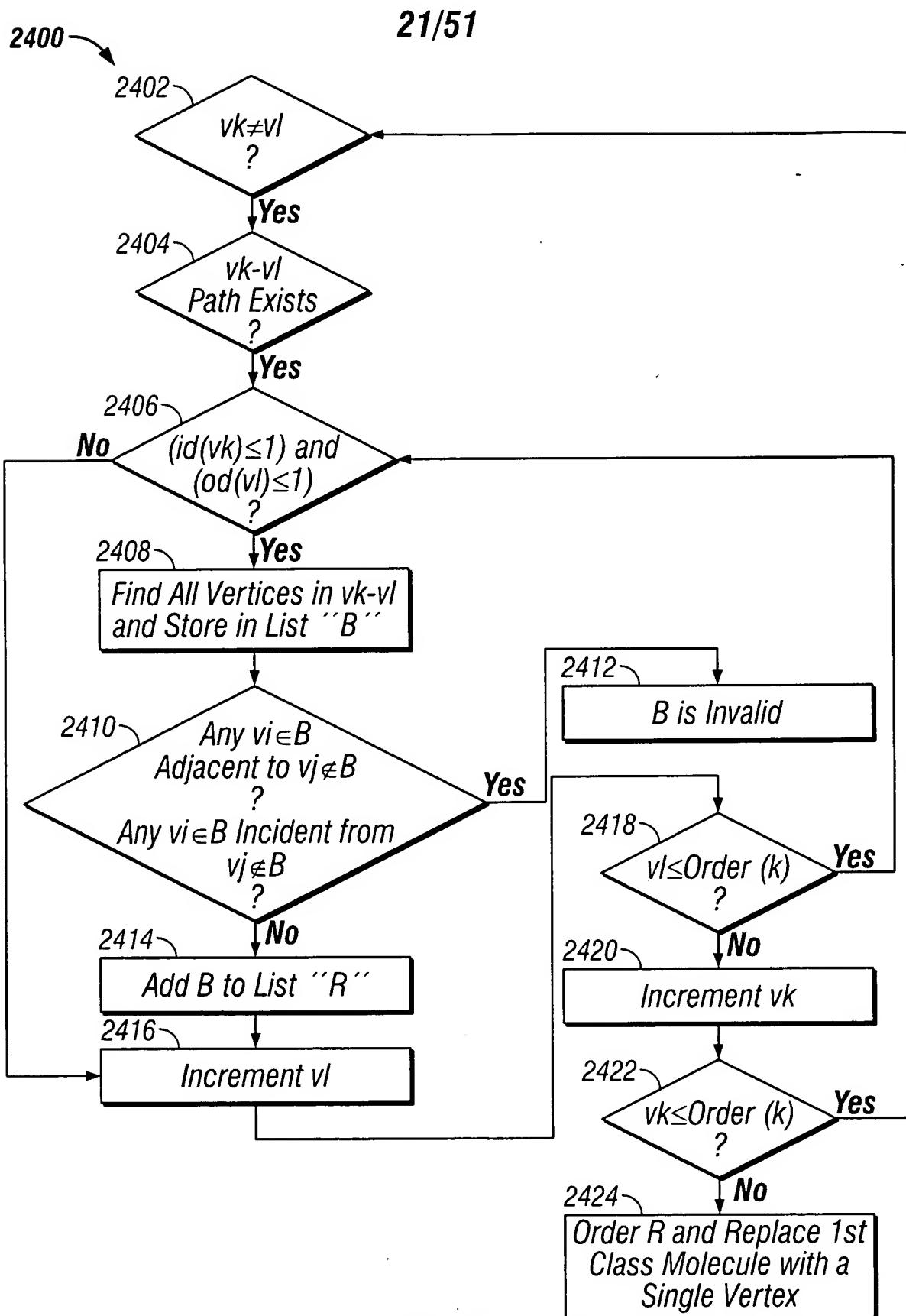


FIG. 23



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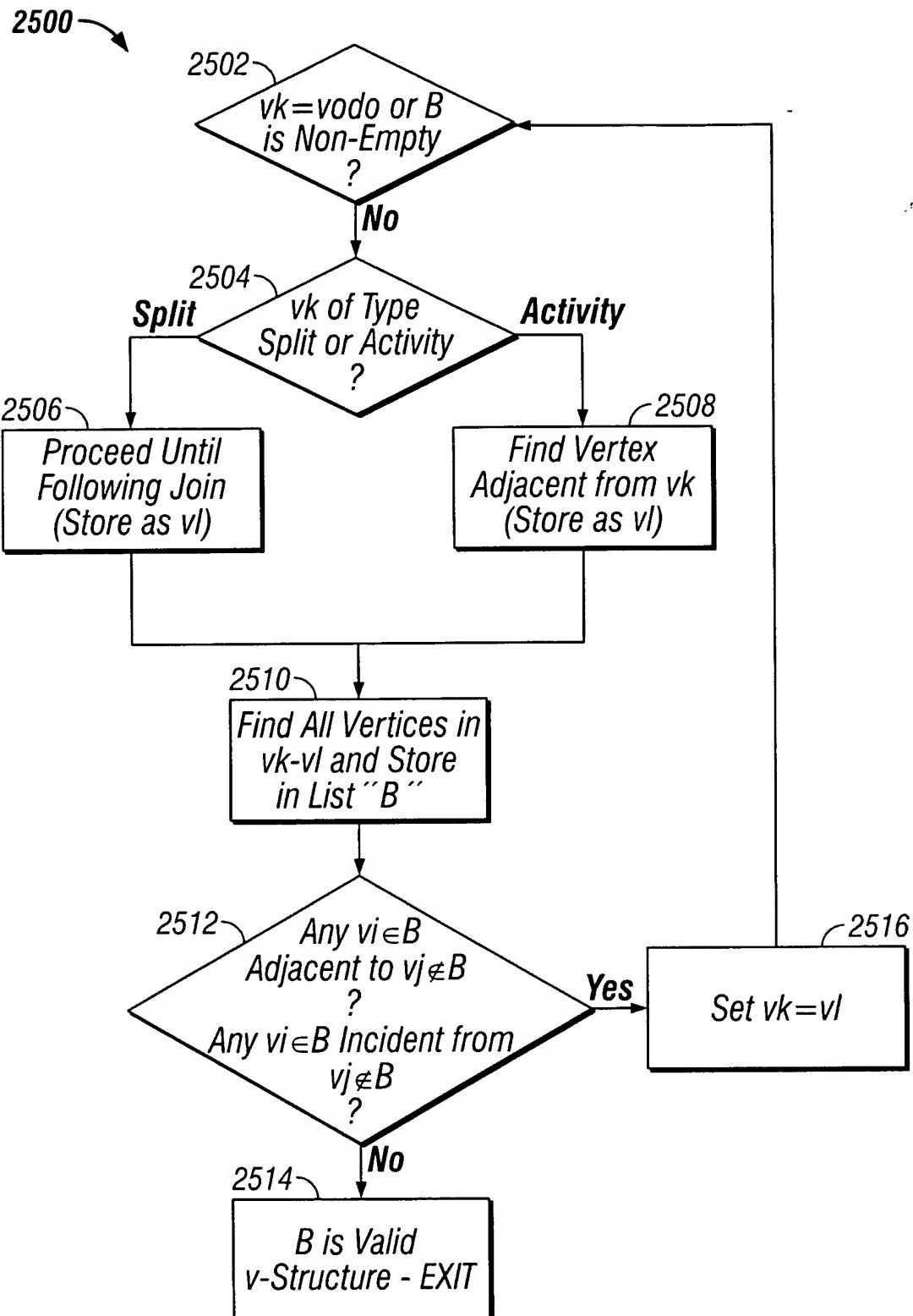


FIG. 25

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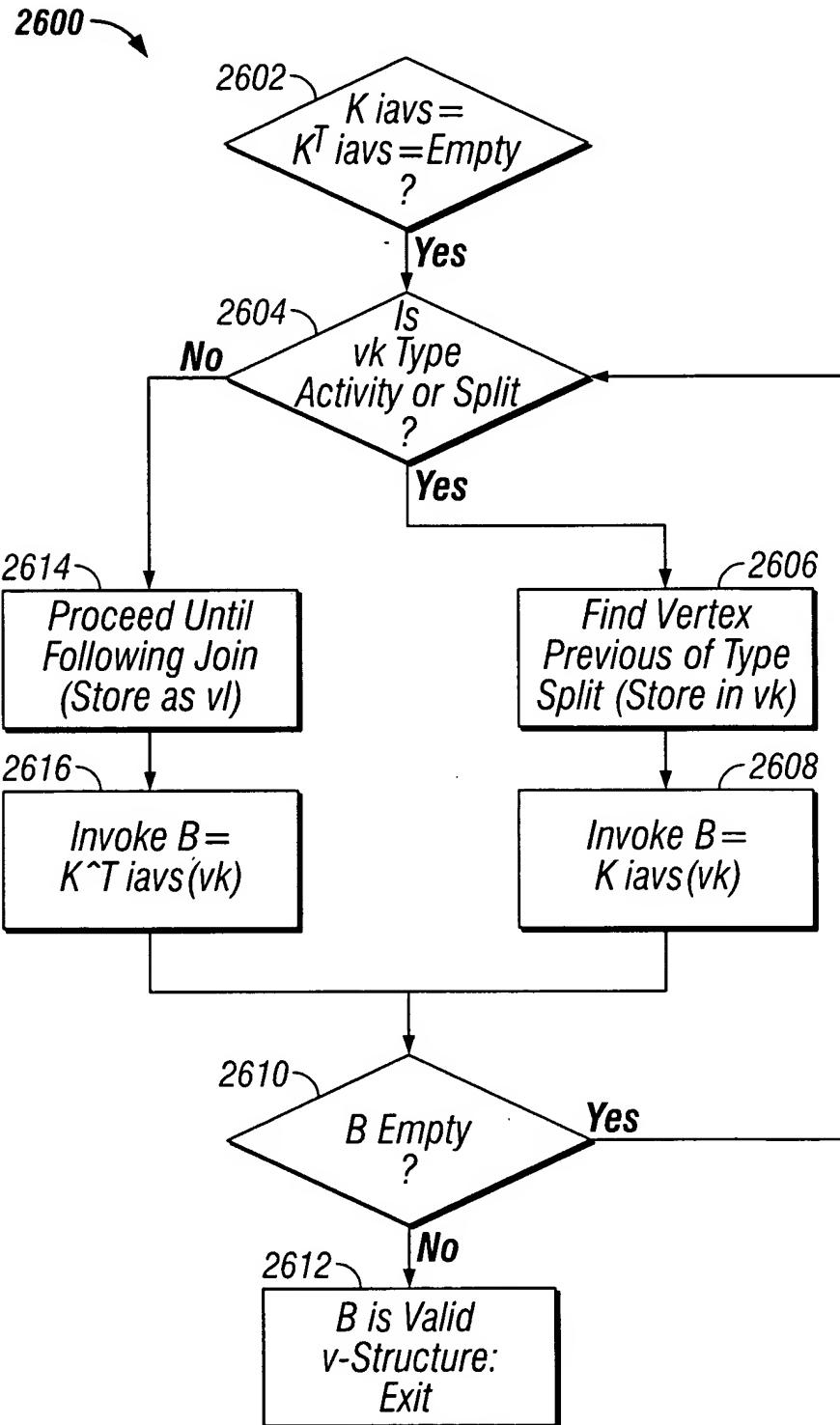


FIG. 26

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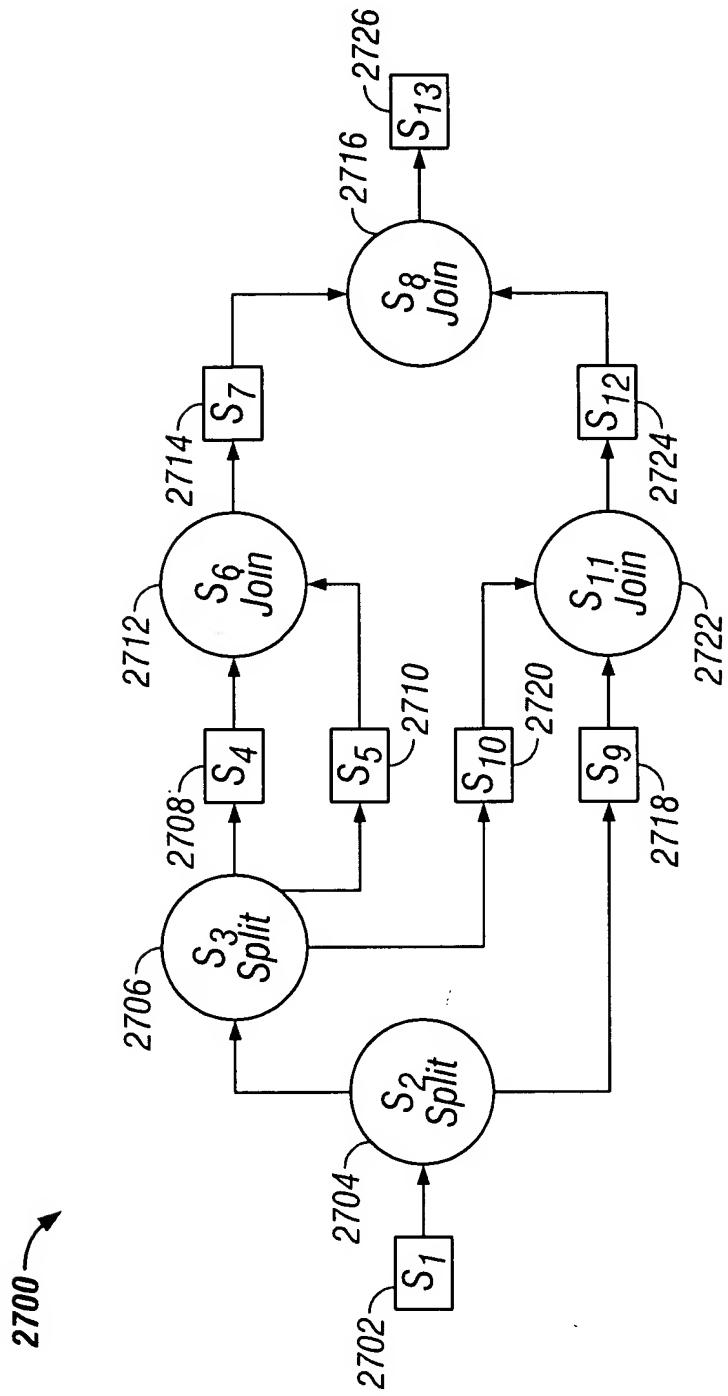


FIG. 27A

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V_k	$S_{iavse}(V_k)$
S_1	$\{S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_2	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_3	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_4	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_5	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_6	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_7	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_8	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_9	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{10}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{11}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{12}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}\}$
S_{13}	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{11}, S_{12}, S_{13}\}$

FIG. 27B

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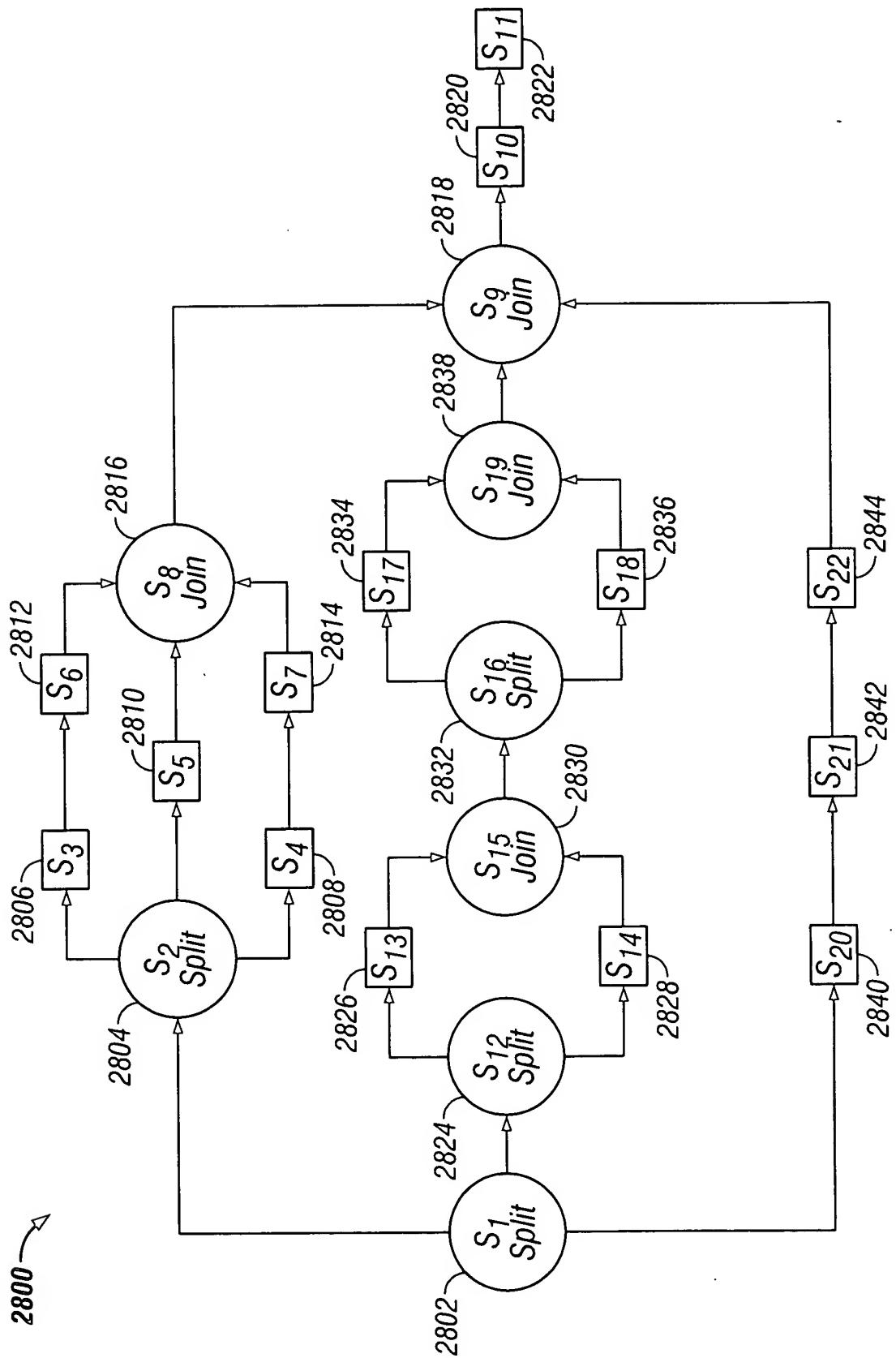


FIG. 28A

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V_k	$S_{iausse}(V_k)$
S_1	$\{S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{12}, S_{13}, S_{14}, S_{15}, S_{16}, S_{17}, S_{18}, S_{19}, S_{20}, S_{21}, S_{22}\}$
S_2	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8\}$
S_3	$\{S_3, S_6\}$
S_4	$\{S_4, S_7\}$
S_5	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8\}$
S_6	$\{S_3, S_6\}$
S_7	$\{S_4, S_7\}$
S_8	$\{S_2, S_3, S_4, S_5, S_6, S_7, S_8\}$
S_9	$\{S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{12}, S_{13}, S_{14}, S_{15}, S_{16}, S_{17}, S_{18}, S_{19}, S_{20}, S_{21}, S_{22}\}$
S_{10}	$\{S_1, S_2, S_3, S_4, S_5, S_6, S_7, S_8, S_9, S_{10}, S_{12}, S_{13}, S_{14}, S_{15}, S_{16}, S_{17}, S_{18}, S_{19}, S_{20}, S_{21}, S_{22}\}$ $\{S_{10}, S_{11}\}$
S_{11}	$\{S_{10}, S_{11}\}$
S_{12}	$\{S_{12}, S_{13}, S_{14}, S_{15}\}$
S_{13}	$\{S_{12}, S_{13}, S_{14}, S_{15}\}$
S_{14}	$\{S_{12}, S_{13}, S_{14}, S_{15}\}$
S_{15}	$\{S_{12}, S_{13}, S_{14}, S_{15}\}$
S_{16}	$\{S_{16}, S_{17}, S_{18}, S_{19}\}$
S_{17}	$\{S_{16}, S_{17}, S_{18}, S_{19}\}$
S_{18}	$\{S_{16}, S_{17}, S_{18}, S_{19}\}$
S_{19}	$\{S_{16}, S_{17}, S_{18}, S_{19}\}$
S_{20}	$\{S_{20}, S_{21}\}$
S_{21}	$\{S_{20}, S_{21}\}, \{S_{21}, S_{22}\}$
S_{22}	$\{S_{21}, S_{22}\}$

F/G. 28B

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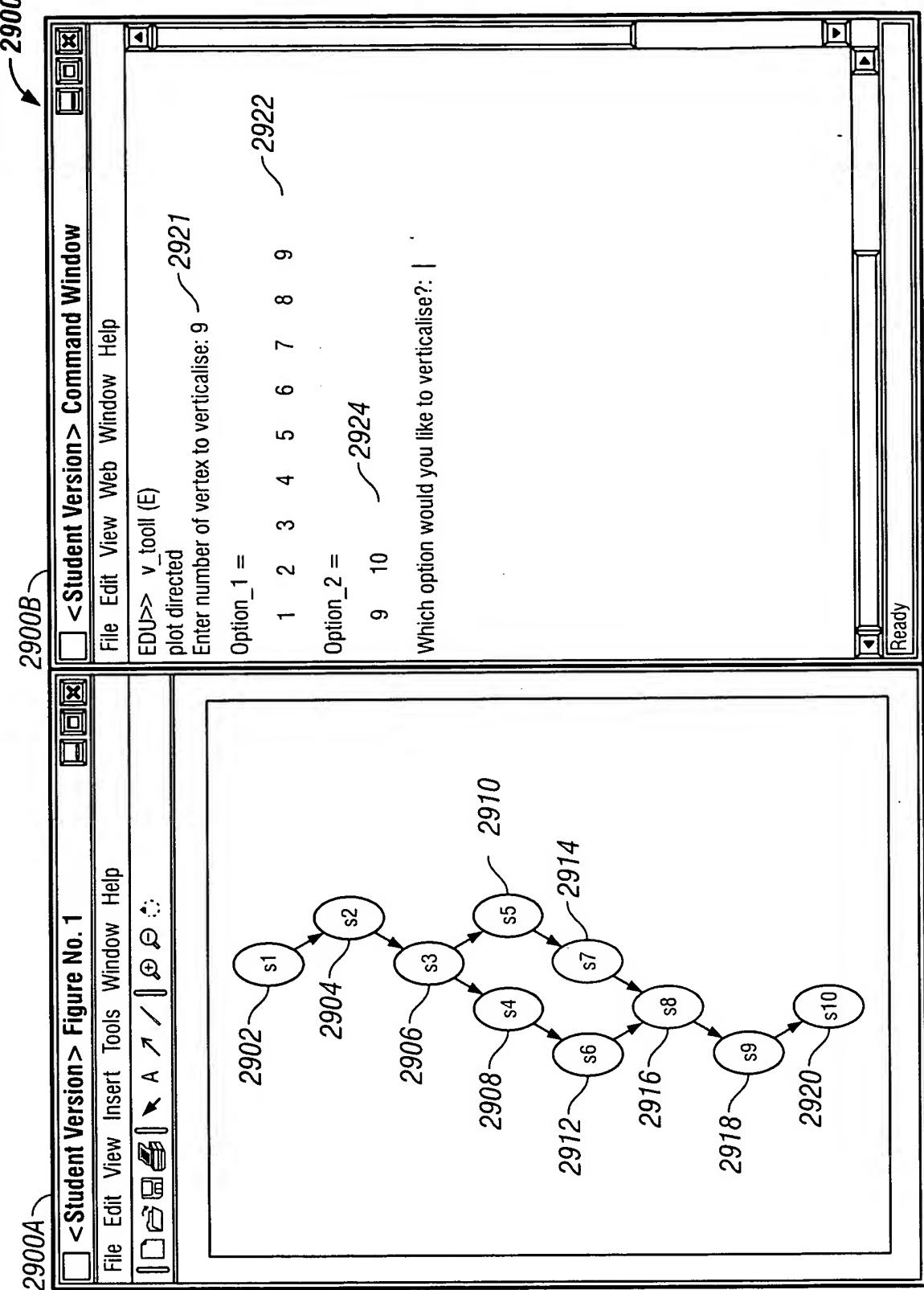


FIG. 29

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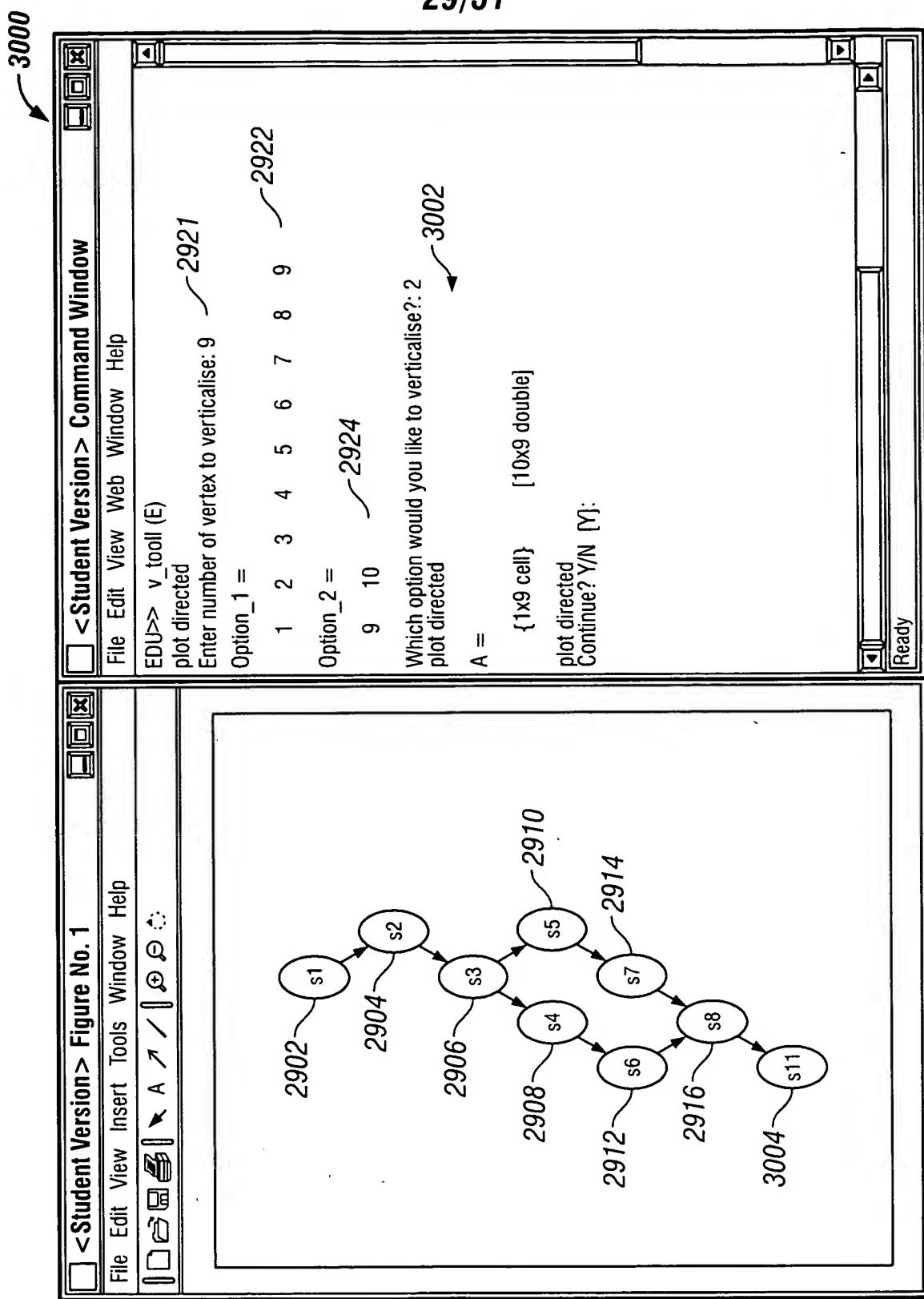


FIG. 30

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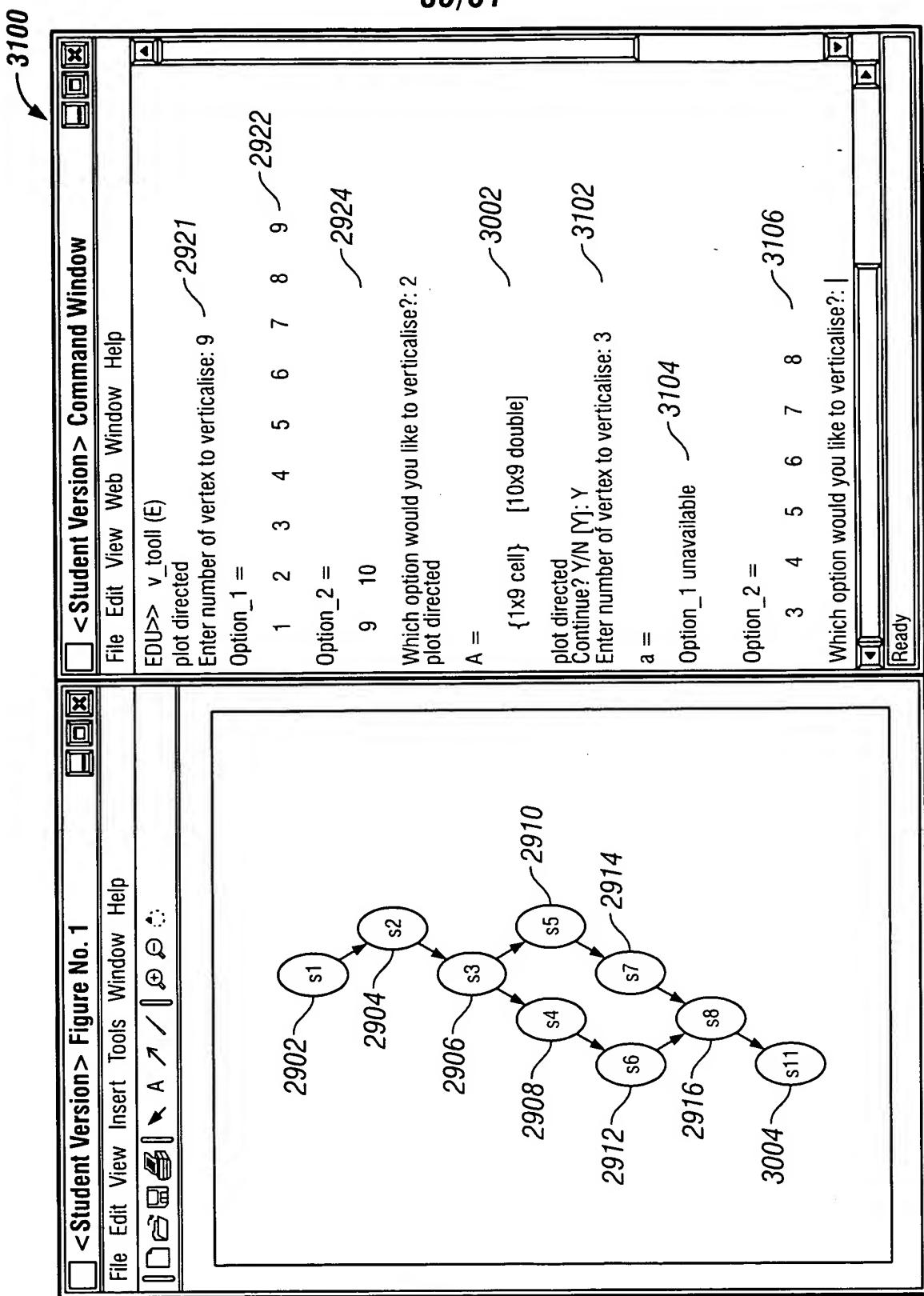


FIG. 31

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< Student Version > Command Window

File Edit View Web Window Help

Option_2 = 2924

9 10

Which option would you like to verticalise?: 2

plot directed

A = {1x9 cell} [10x9 double]

plot directed

Continue? Y/N [Y]:

Enter number of vertex to verticalise: 3

3102

a =

Option_1 unavailable

3104

Option_2 =

3 4 5 6 7 8

3106

Which option would you like to verticalise?: 2

plot directed

A = {1x4 cell}

[5x4 double]

plot directed

Continue? Y/N [Y]:

Enter number of vertex to verticalise: 12

3206

Option_1 =

1 2 12

3208

Option_2 =

11 12

3210

Which option would you like to verticalise?: |

Ready

< Student Version > Figure No. 1

File Edit View Insert Tools Window Help

2902

s1

2904

s2

3204

s12

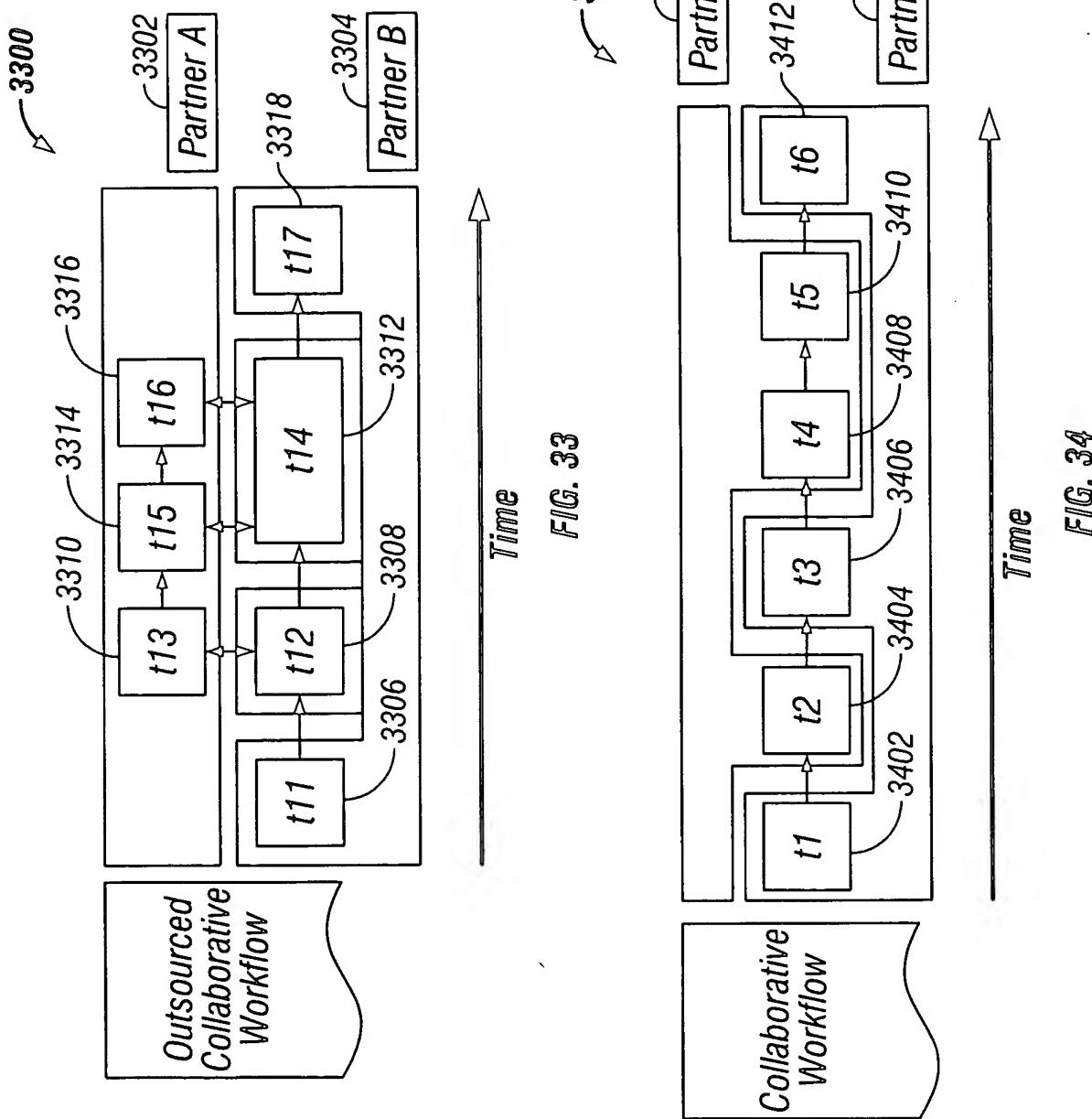
3004

s11

```
graph LR; s1((s1)) --> s2((s2)); s2 --> s12((s12)); s2 --> s11((s11)); s12 --> s11;
```

F/G. 32

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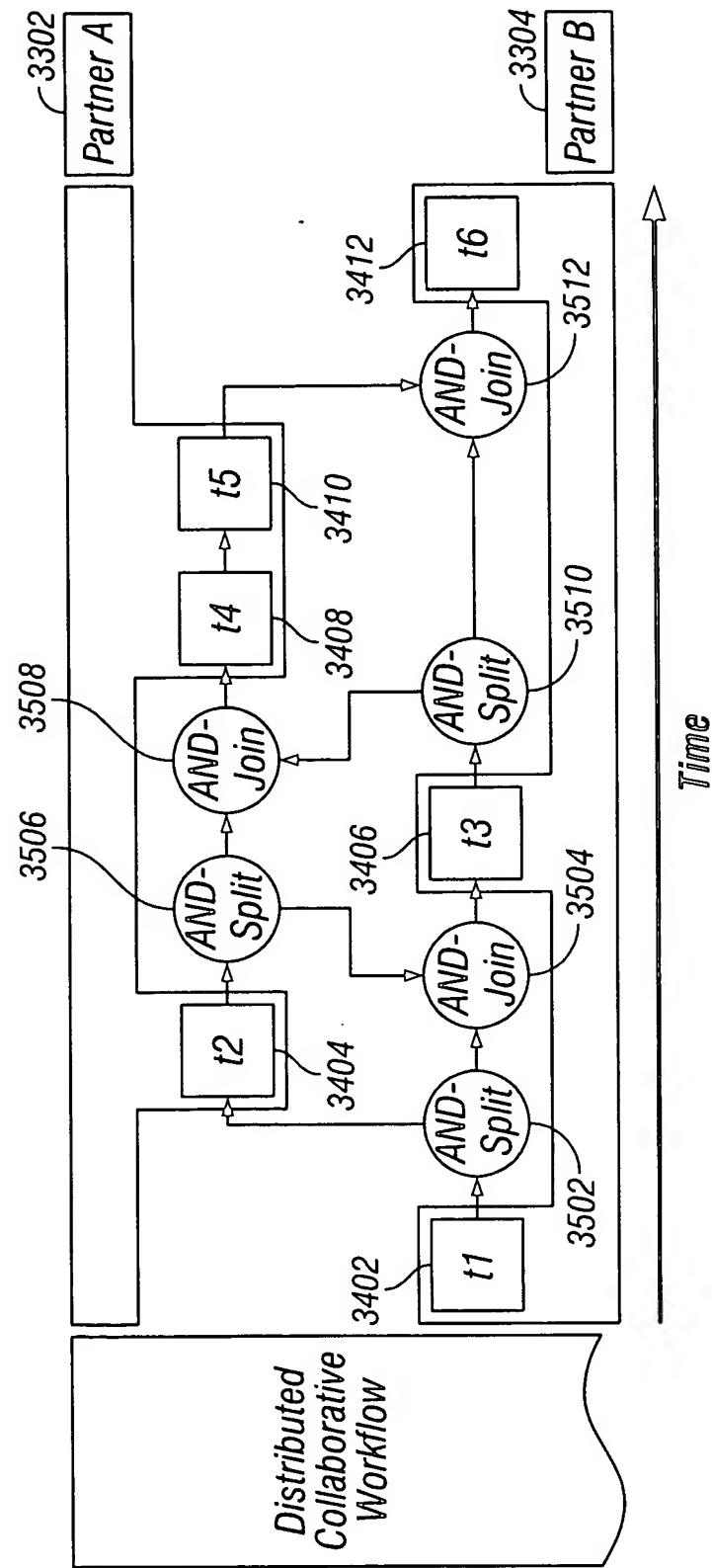


FIG. 35

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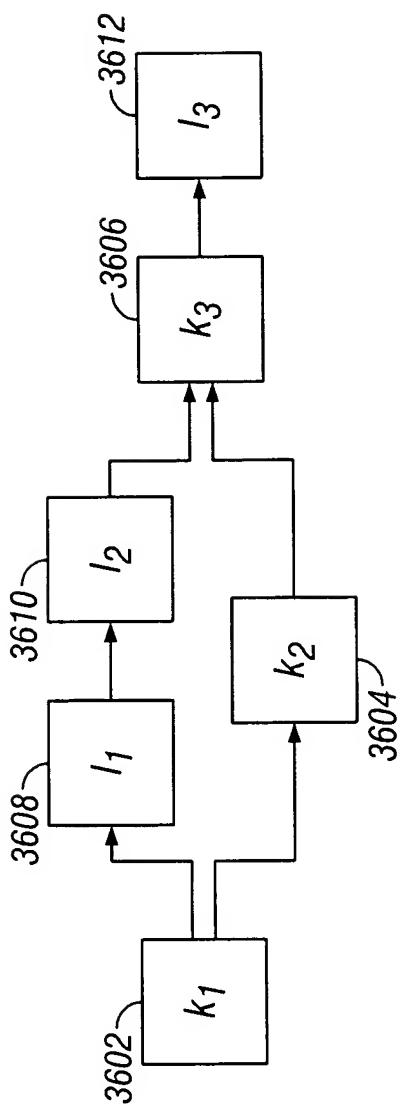


FIG. 36

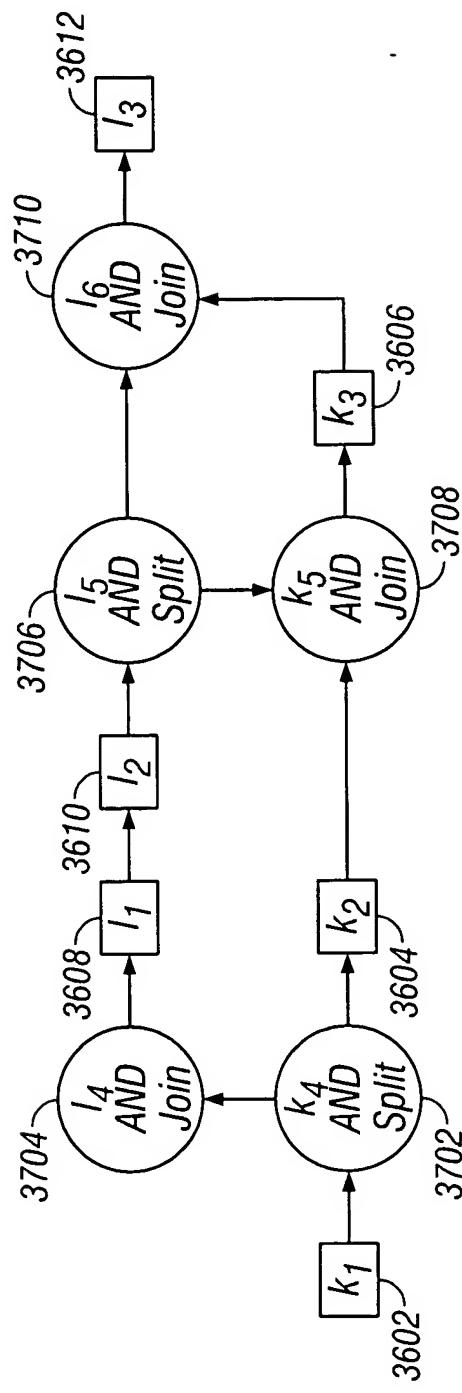


FIG. 37

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The diagram illustrates a matrix structure with indices and annotations:

- Row-Index (i):** Labeled vertically on the left.
- Column-Index (j):** Labeled diagonally at the top.
- Matrix Cells:** The matrix contains elements m_{ij} where $i \in \{1, \dots, m\}$ and $j \in \{1, \dots, n\}$. The matrix is divided into two main regions:
 - Region 1 (Top Left):** Labeled with a circled 1. It contains elements $m_{1,1}, \dots, m_{1,m}$, \dots, \dots, \dots , $m_{m,1}, \dots, m_{m,m}$.
 - Region 2 (Bottom Right):** Labeled with a circled 2. It contains elements $n_{1,1}, \dots, n_{1,n}$, \dots, \dots, \dots , $n_{n,1}, \dots, n_{n,n}$.
- Annotations:**
 - A curved arrow labeled **3800** points from the bottom right towards the boundary between Region 1 and Region 2.
 - A curved arrow labeled **3802** points from the top left towards the boundary between Region 1 and Region 2.
 - A curved arrow labeled **3806** points from the top right towards the boundary between Region 1 and Region 2.
 - A curved arrow labeled **3804** points from the bottom right towards the boundary between Region 1 and Region 2.

FIG. 38

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3900 ↗

Row-Index (i)	Column-Index (j)					
	1	2	...	l	...	r
1	(1) $m_{1,1}$	$m_{1,2}$...	$m_{1,l}$...	$m_{1,m}$
2	$m_{2,1}$	$m_{2,2}$...	$m_{2,l}$...	$m_{2,m}$
...
k	$m_{k,1}$	$m_{k,2}$...	(2) z	...	$m_{k,m}$
...
r	$m_{m,1}$	$m_{m,2}$...	$m_{m,l}$...	$m_{m,m}$

3902 ↘

3904 ↘

FIG. 39

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The diagram illustrates a matrix structure with indices and annotations:

- Row-Index (i):** Labeled 1, 2, ..., K , $m_1, 1$, $m_2, 2$, ..., $m_{m, 1}$, r .
- Column-Index (j):** Labeled 1, 2, ..., K , $m_1, 2$, ..., $m_{m, 2}$, r .
- Annotations:**
 - A curved arrow labeled "4000" points from the top right towards the column index.
 - A bracket labeled "4004" spans the first two columns of the matrix.
 - A bracket labeled "4008" spans the first three columns of the matrix.
 - A bracket labeled "4006" spans the last two columns of the matrix.
 - Indices i and j are circled with the number 1.
 - Index r is circled with the number 2.
 - Index r is circled with the number 3.

1	$m_{1,1}$	$m_{1,2}$...	0	$m_{1,m}$	$m_{1,k}$
2	$m_{2,1}$	$m_{2,2}$...	0	$m_{2,m}$	$m_{2,k}$
...	0
k	$m_{k,1}$	$m_{k,2}$...	0	$m_{k,m}$	$m_{k,k}$
m	$m_{m,1}$	$m_{m,2}$...	0	$m_{m,m}$	$m_{m,k}$
r	0	0	0	1	0	0

FIG. 40

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Column-Index (j)		1	2	4102	...	K	...	m	r
Row-Index (i)		1	2	4102	...	$m_{1,K}$...	$m_{1,m}$	0
1	$m_{1,1}$	$m_{1,2}$...						
2	$m_{2,1}$	$m_{2,2}$...		$m_{2,K}$...	$m_{2,m}$	0	
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	0
K	0	0	0	0	0	0	0	1	③ 4106
m	$m_{m,1}$	$m_{m,2}$...			$m_{m,K}$...	$m_{m,m}$	0
r	$m_{k,1}$	$m_{k,2}$...		$m_{k,K}$...	$m_{k,m}$	0	② 4104

FIG. 41

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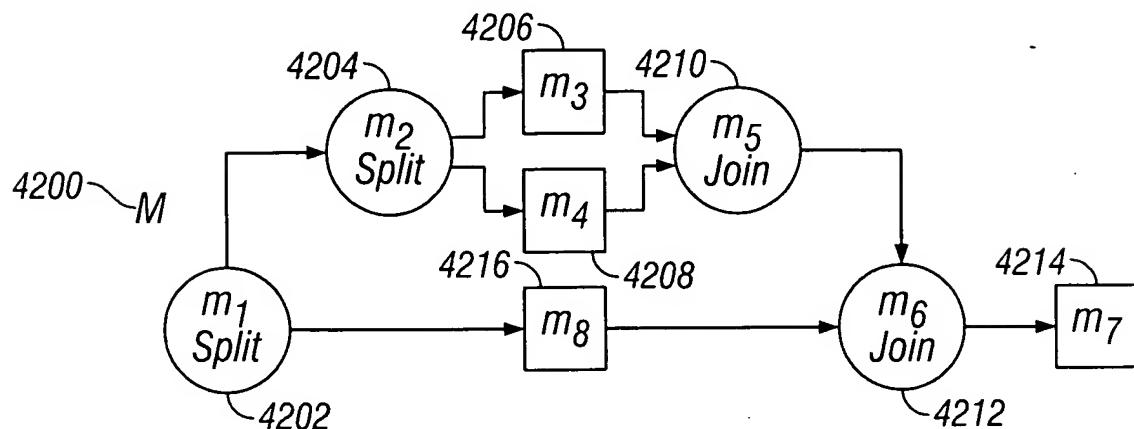


FIG. 42

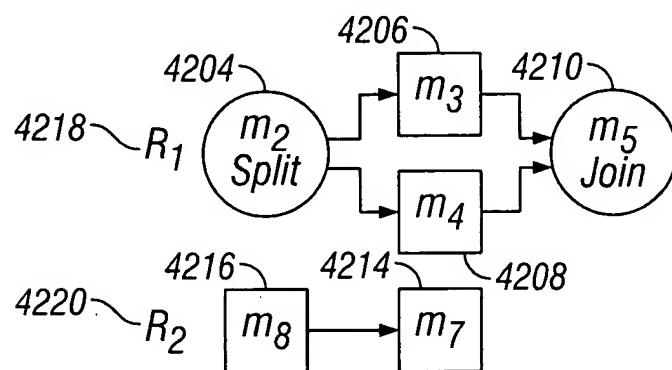


FIG. 42A

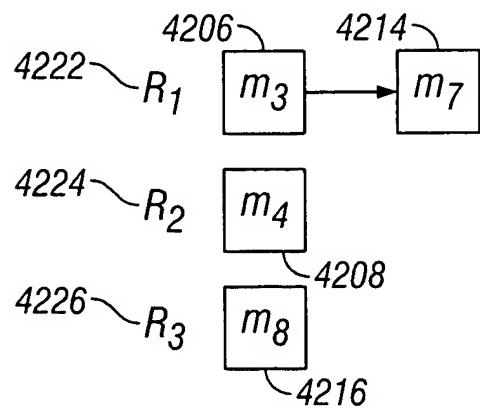


FIG. 42B

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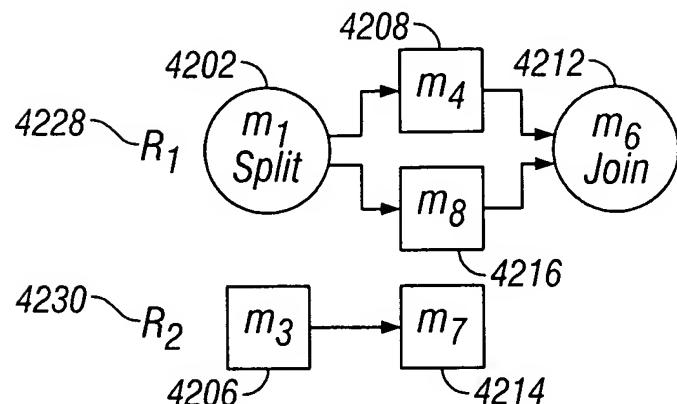


FIG. 42C

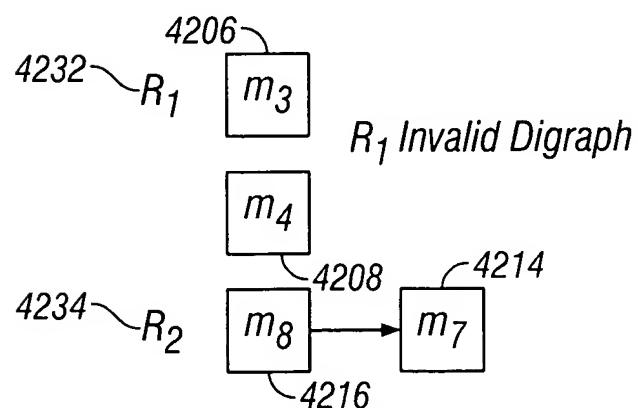


FIG. 42D

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4300 ↙

Row-Index (i)		Column-Index (j)						
1	2	4302 ...	$k-1$	k	$k+1$	r	4304 ↘
1	$m_{1,1}$	$m_{1,2}$...	$m_{1,k-1}$	$m_{1,k+1}$	$m_{1,k+2}$...	$m_{1,m}$
2	$m_{2,1}$	$m_{2,2}$	...	$m_{2,k-1}$	$m_{2,k+1}$	$m_{2,k+2}$	...	$m_{2,m}$
...
$k-1$	$m_{k-1,1}$	$m_{k-1,2}$	...	$m_{k-1,k-1}$	$m_{k-1,k+1}$	$m_{k-1,k+2}$	...	$m_{k-1,m}$
k	$m_{k+1,1}$	$m_{k+1,2}$	...	$m_{k+1,k-1}$	$m_{k+1,k+1}$	$m_{k+1,k+2}$	...	$m_{k+1,m}$
$k+1$	$m_{k+2,1}$	$m_{k+2,2}$...	$m_{k+2,k-1}$	$m_{k+2,k+1}$	$m_{k+2,k+2}$...	$m_{k+2,m}$
...
r	$m_{m,1}$	$m_{m,2}$...	$m_{m,k-1}$	$m_{m,k+1}$	$m_{m,k+2}$...	$m_{m,m}$

4306 ↗ 4308 ↘

FIG. 43

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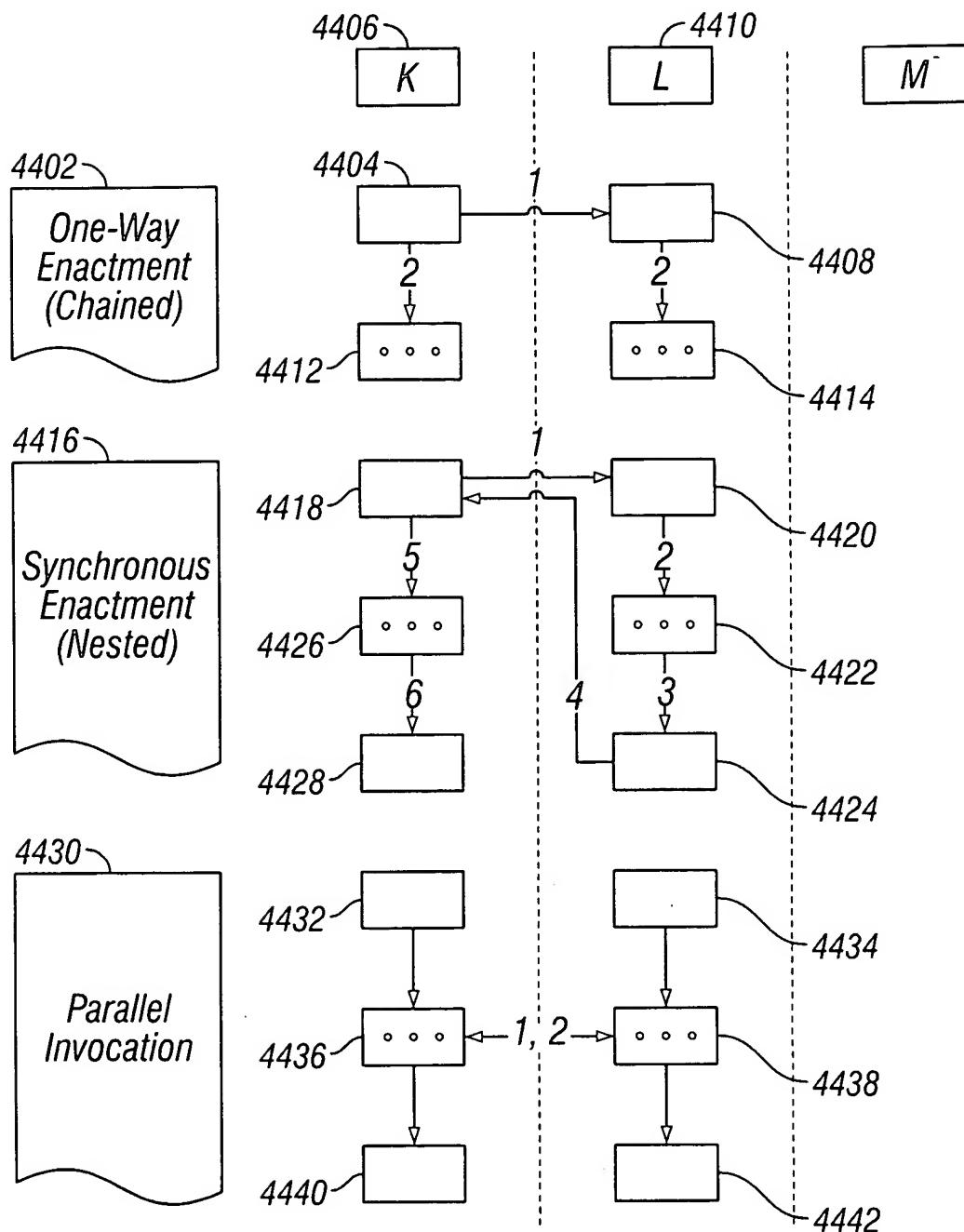


FIG. 44

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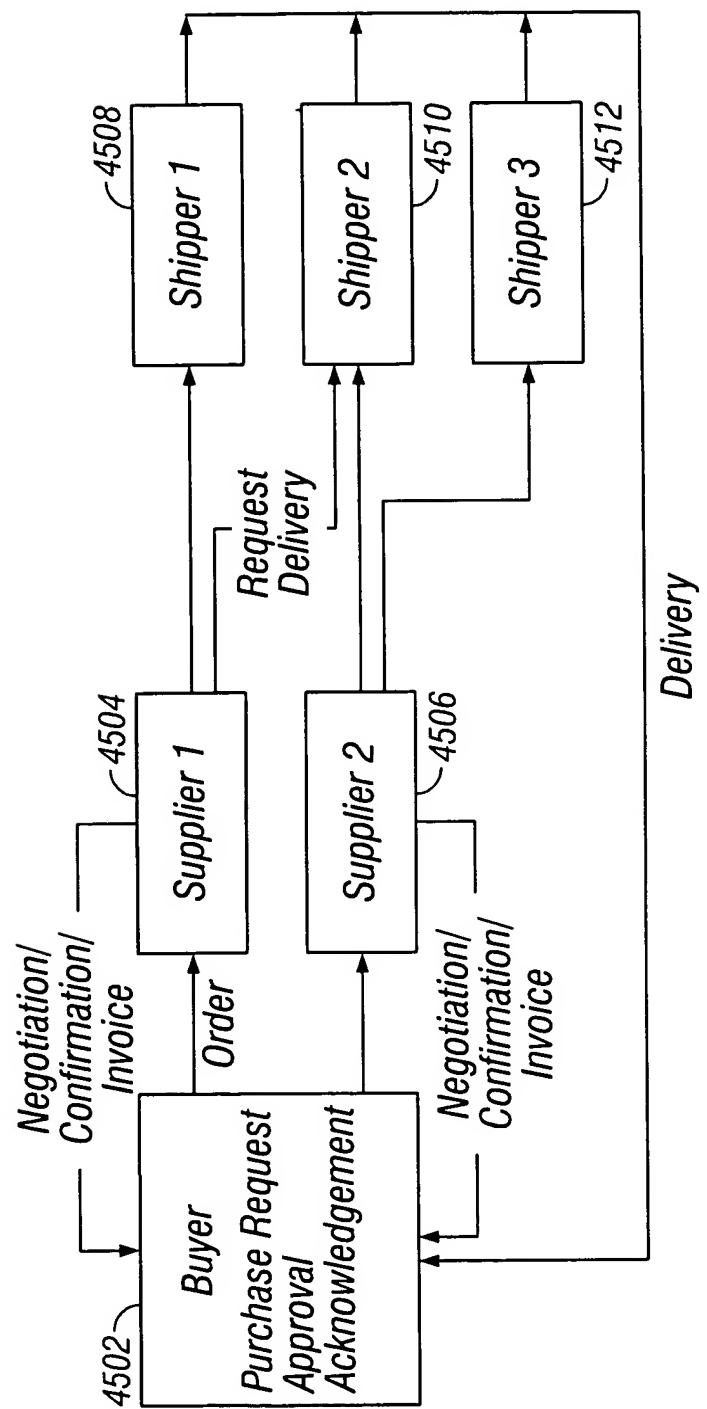


FIG. 45

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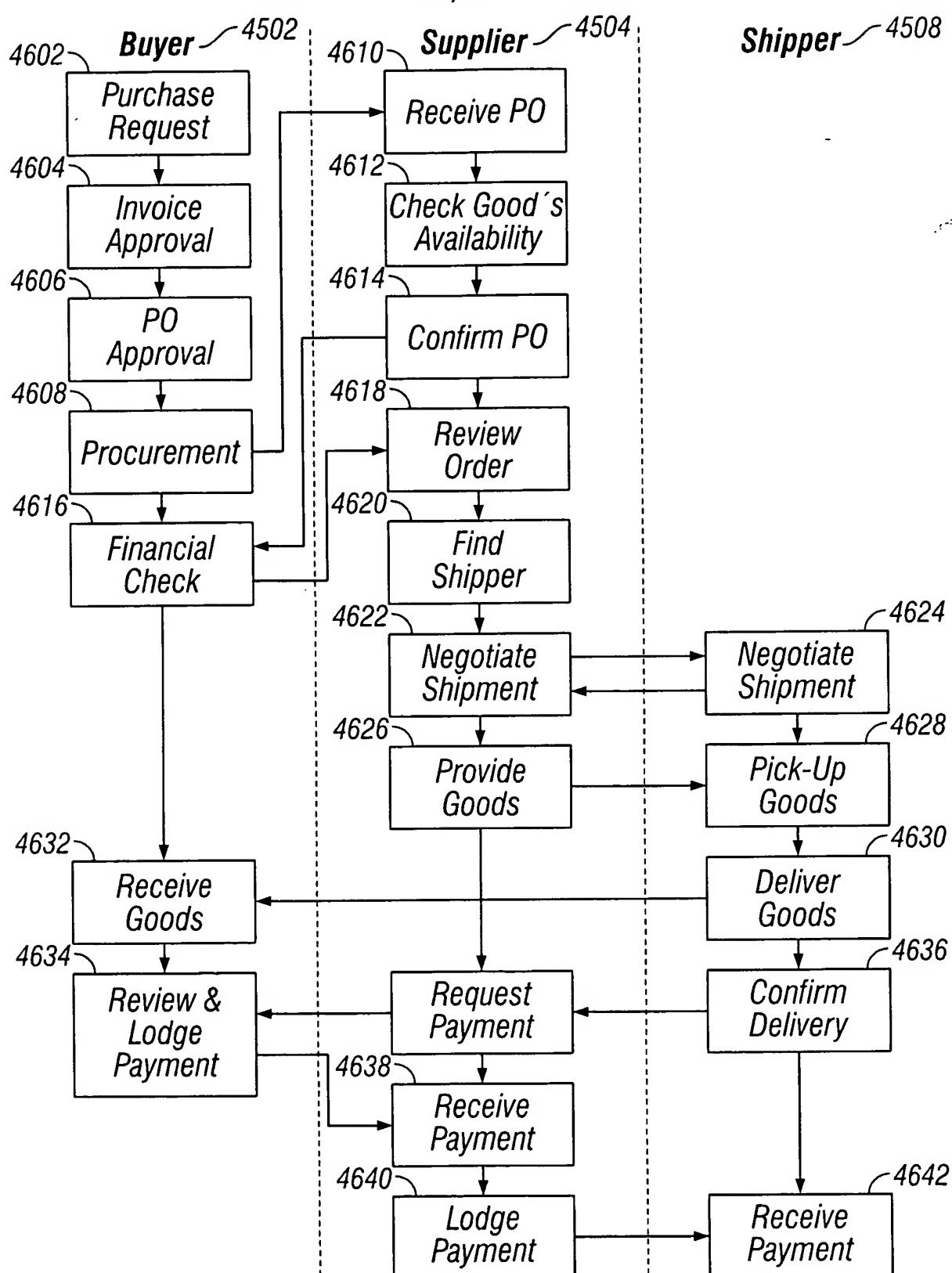


FIG. 46

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4702

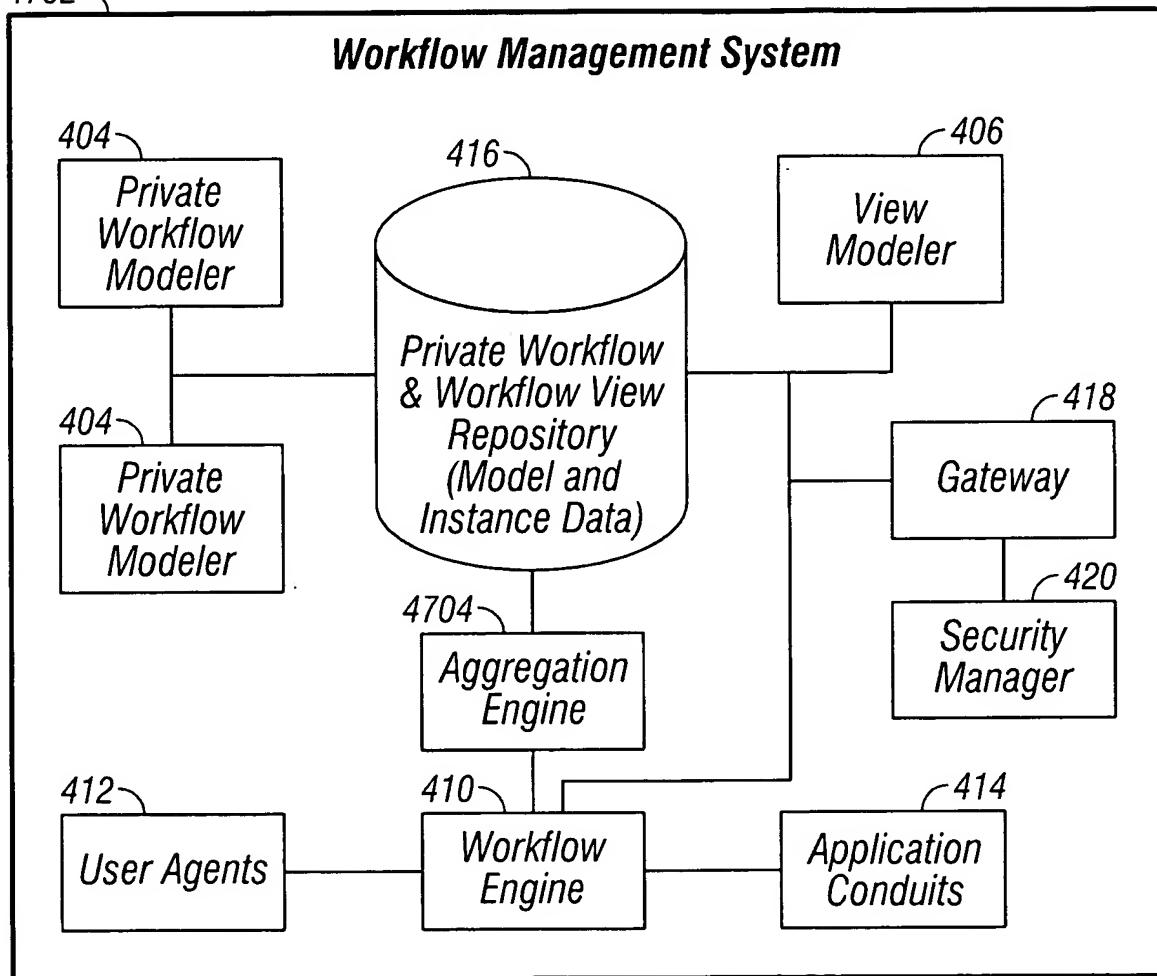


FIG. 47

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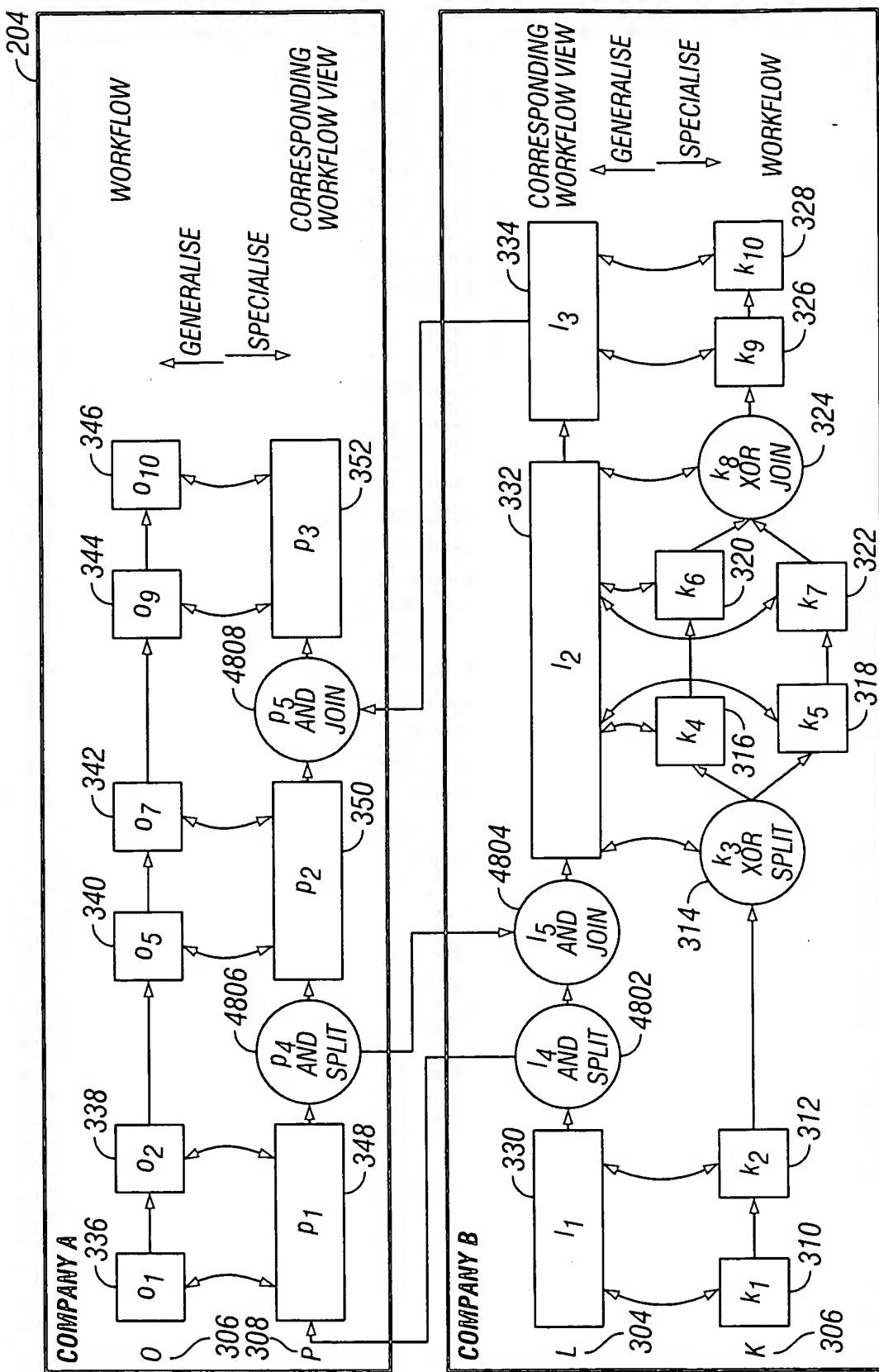


FIG. 48

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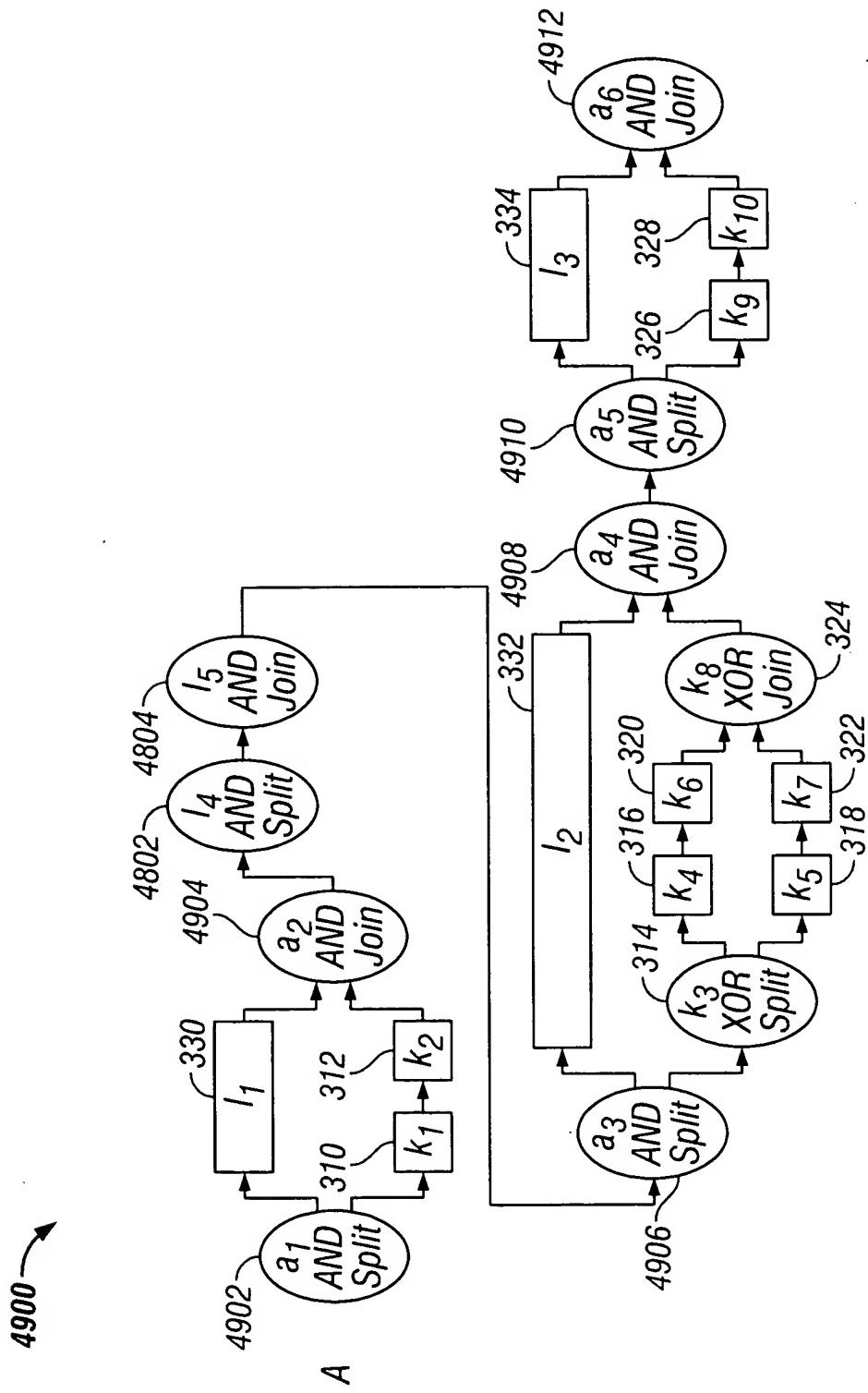


FIG. 49

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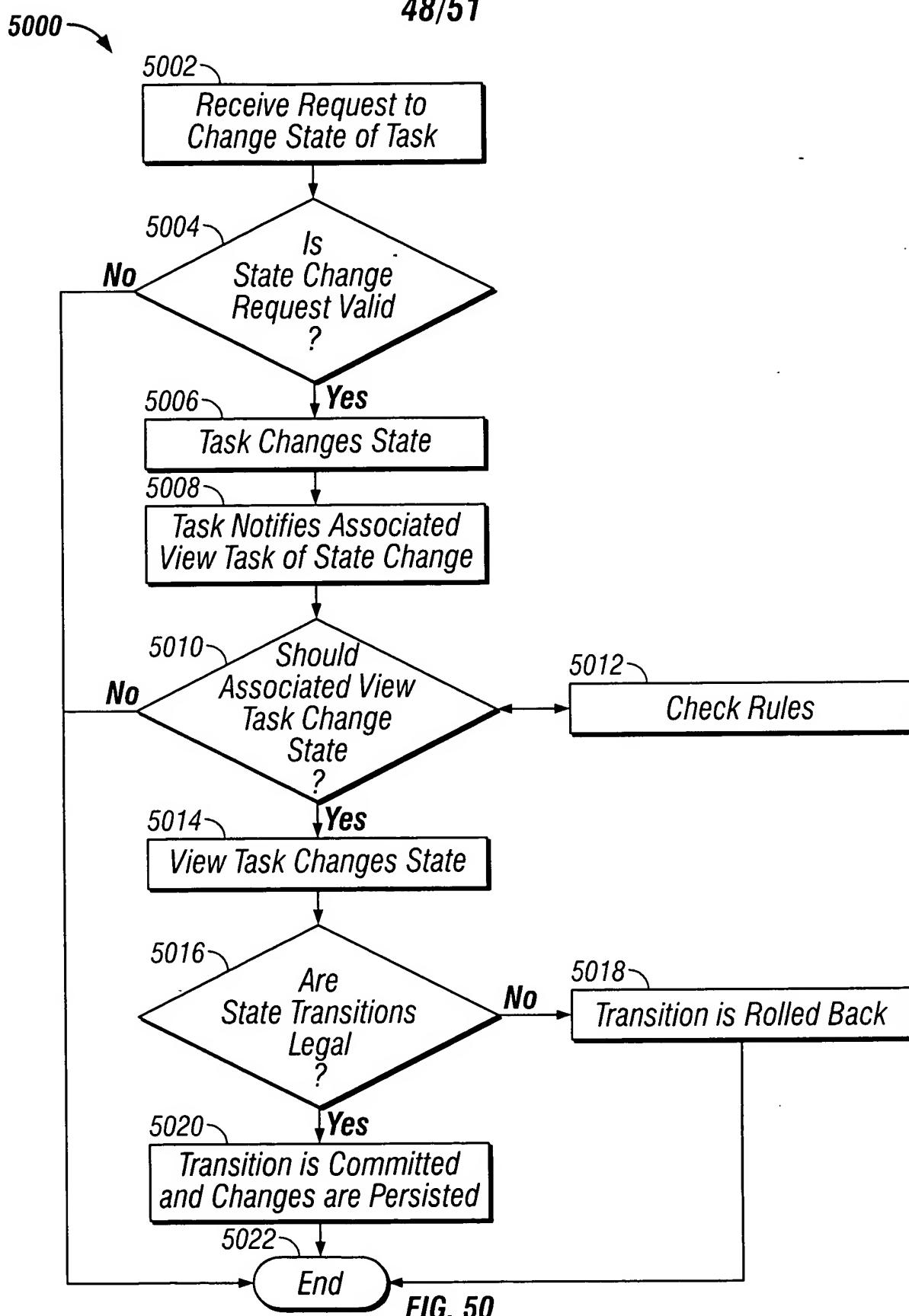


FIG. 50

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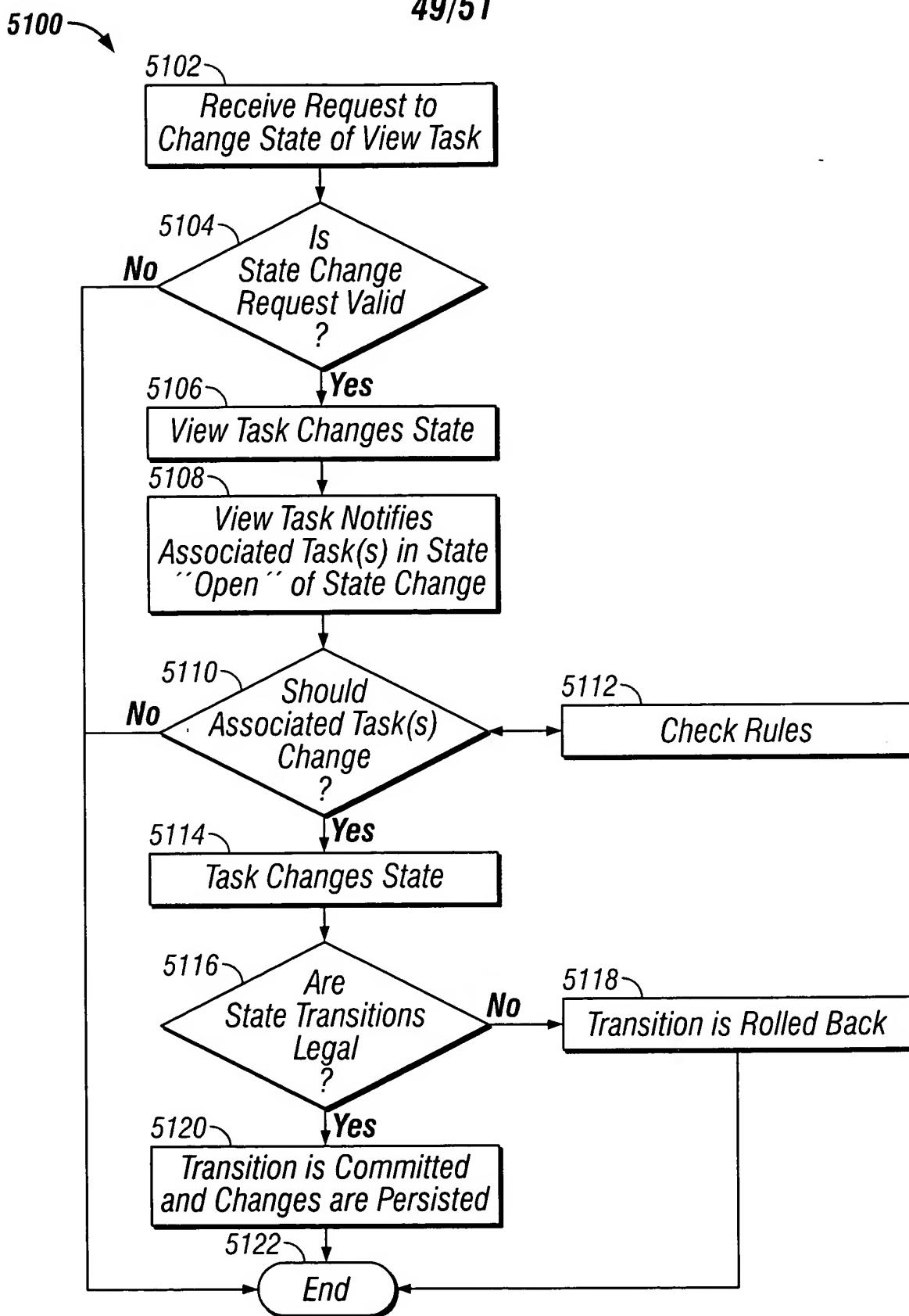


FIG. 51

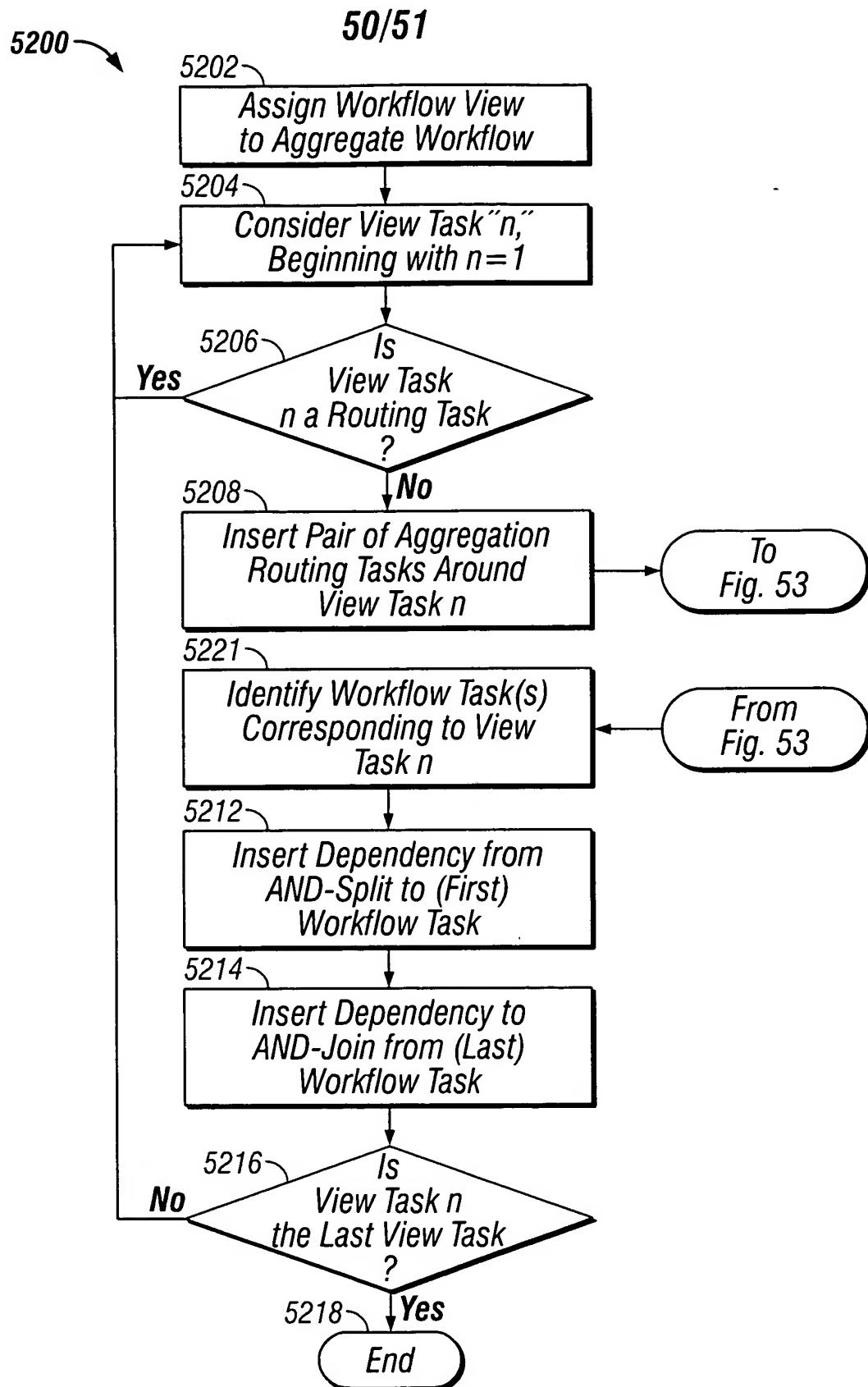


FIG. 52

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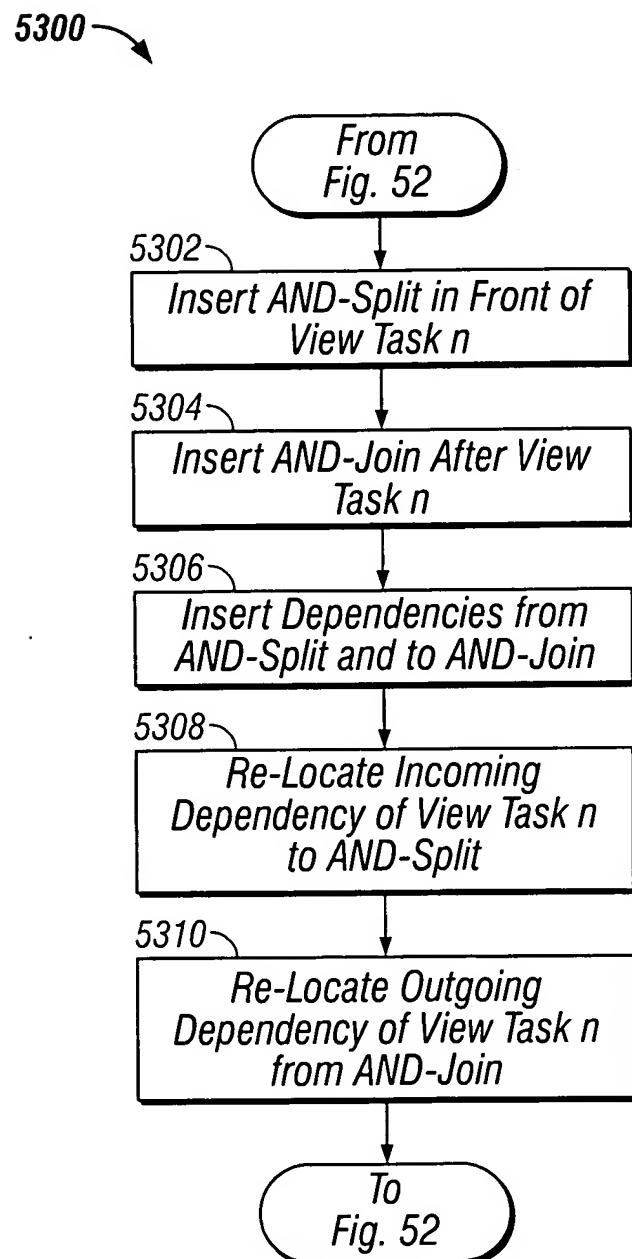


FIG. 53